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Fluoridation Census 1989 - Summary



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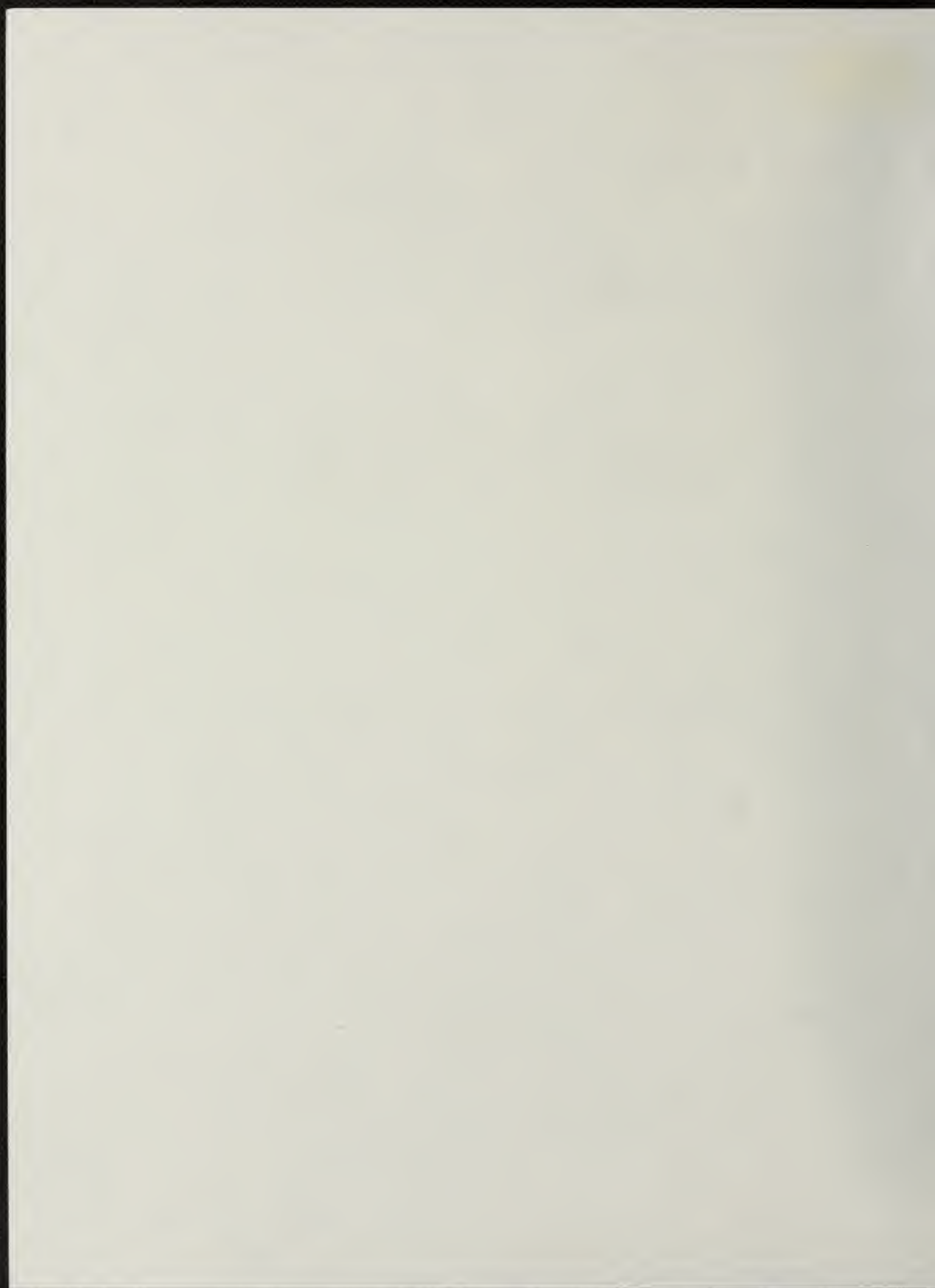
U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Public Health Service / Centers for Disease Control

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FLUORIDATION CENSUS 1989— SUMMARY JULY — 1991

U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Public Health Service
Centers for Disease Control
National Center for Prevention Services
Dental Disease Prevention Activity
Atlanta, Georgia 30333



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INTRODUCTION

The adjustment of the fluoride content of community water supplies to an optimal level to prevent tooth decay began on January 25, 1945, in Grand Rapids, Michigan. At the present time, over 128 million citizens in more than 8,081 communities throughout the Nation are receiving the benefits of optimally adjusted fluoridated water. An additional 9 million people in 1,869 communities are using water with naturally occurring fluoride at levels of 0.7 parts per million or higher. Therefore, 44 years after the first water system was fluoridated, more than 54 percent of the Nation's population has access to water with a dentally significant concentration of fluoride.

Adjusted fluoridation is the conscious maintenance of the optimal fluoride concentration in the water supply for reducing dental caries and minimizing the risk of dental fluorosis. The optimal concentration may be accomplished by adding fluoride chemicals to fluoride deficient water; by blending two or more sources of water naturally containing fluoride to achieve the optimal concentration; or partial defluoridation, that is, removing naturally occurring excessive fluorides to obtain the recommended level. Water systems are considered to have optimal level of natural fluoride if they contain naturally occurring fluoride at or above the minimum recommended control range. Water systems and communities with optimally adjusted fluoride and naturally occurring fluoride in water are listed in this publication. Adjusted water systems are fluoridated at the optimal level according to the average maximum daily air temperature in the community. (Recommended concentrations, according to National Interim Primary Drinking Water Regulations, 1975, are shown on Table A.) Although the term natural fluoridation has no particular scientific or official connotation, it has been used in this publication for the sake of simplification.

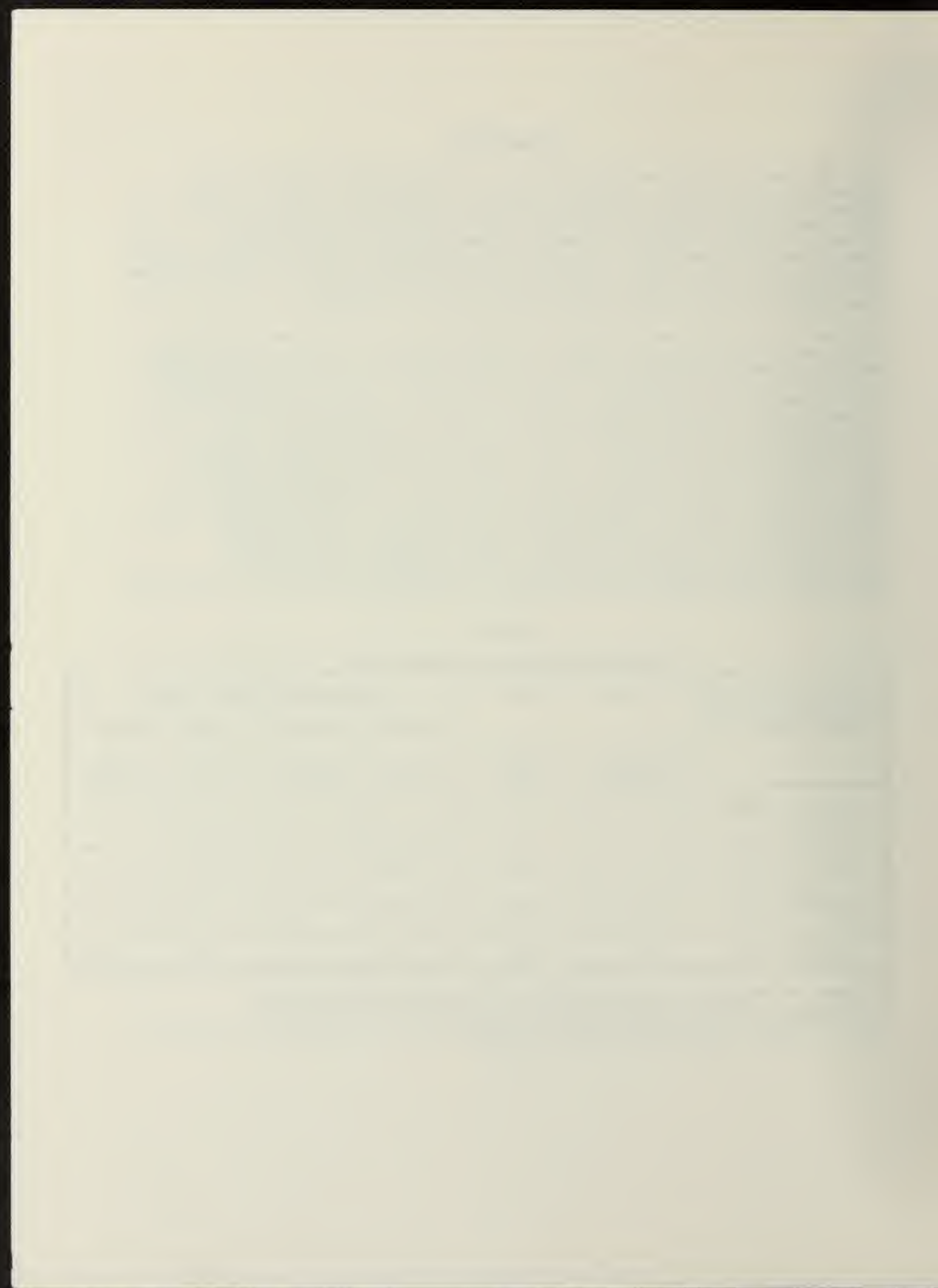
TABLE A
RECOMMENDED OPTIMAL FLUORIDE LEVEL

Annual Average of Maximum Daily Air Temperatures ¹ (°F)	Optimal Fluoride		Recommended Control Range			
			Community Systems		School Systems	
	Community (ppm)	School ² (ppm)	0.1 Below	0.5 Above	20% Low	20% High
40.0 - 53.7	1.2	5.4	1.1	1.7	4.3	6.5
53.8 - 58.3	1.1	5.0	1.1	1.6	4.3	6.0
58.4 - 63.8	1.0	4.5	0.9	1.6	3.6	6.0
63.9 - 70.6	0.9	4.1	0.8	1.4	3.3	4.9
70.7 - 79.2	0.8	3.6	0.8	1.4	2.9	4.9
79.3 - 90.5	0.7	3.2	0.6	1.2	2.6	3.8

1. Based on temperature data obtained for a minimum of five years.

2. Based on 4.5 times the optimum fluoride level for communities.

Source: Centers for Disease Control, National Center for Prevention Services,
Dental Disease Prevention Activity.



METHODOLOGY

A computer printout of the fluoridation status for each state as it was collected for the 1988 Fluoridation Census Summary was forwarded to every state health department as a guide to updating information for the Fluoridation Census 1989 Summary. They were requested to update, change, and verify the information presented and to include new fluoridation installations while deleting those that were inappropriate. A request was made to update the population figures to reflect 1989 census estimates. This information was then submitted for the Fluoridation Census 1989: States were asked to report each fluoridated water system and the communities each system served; the status of fluoridation, adjusted, consecutive, or natural; the system from which water was purchased, if consecutive; the population receiving fluoridated water; the date on which fluoridation started; and the chemical used for fluoridation, if adjusted.

The updated information was returned to CDC where a master file was created to incorporate the new format and to reflect changes made in the previous data provided by state health officials. The states were informed that unless they made specific changes in their state's printout, the data on the existing printout would be used in the publication of the Fluoridation Census 1989 Summary. In essence, this publication is a report of the status of fluoridation made by the states, and the data herewith reported have been provided by the individual states.

Previous Status Reports were:

Fluoridation Census, 1967, Division of Dental Health, National Institutes of Health, U.S. Department of Health, Education, and Welfare. U.S. Government Printing Office Publication #1968 O-310-023.

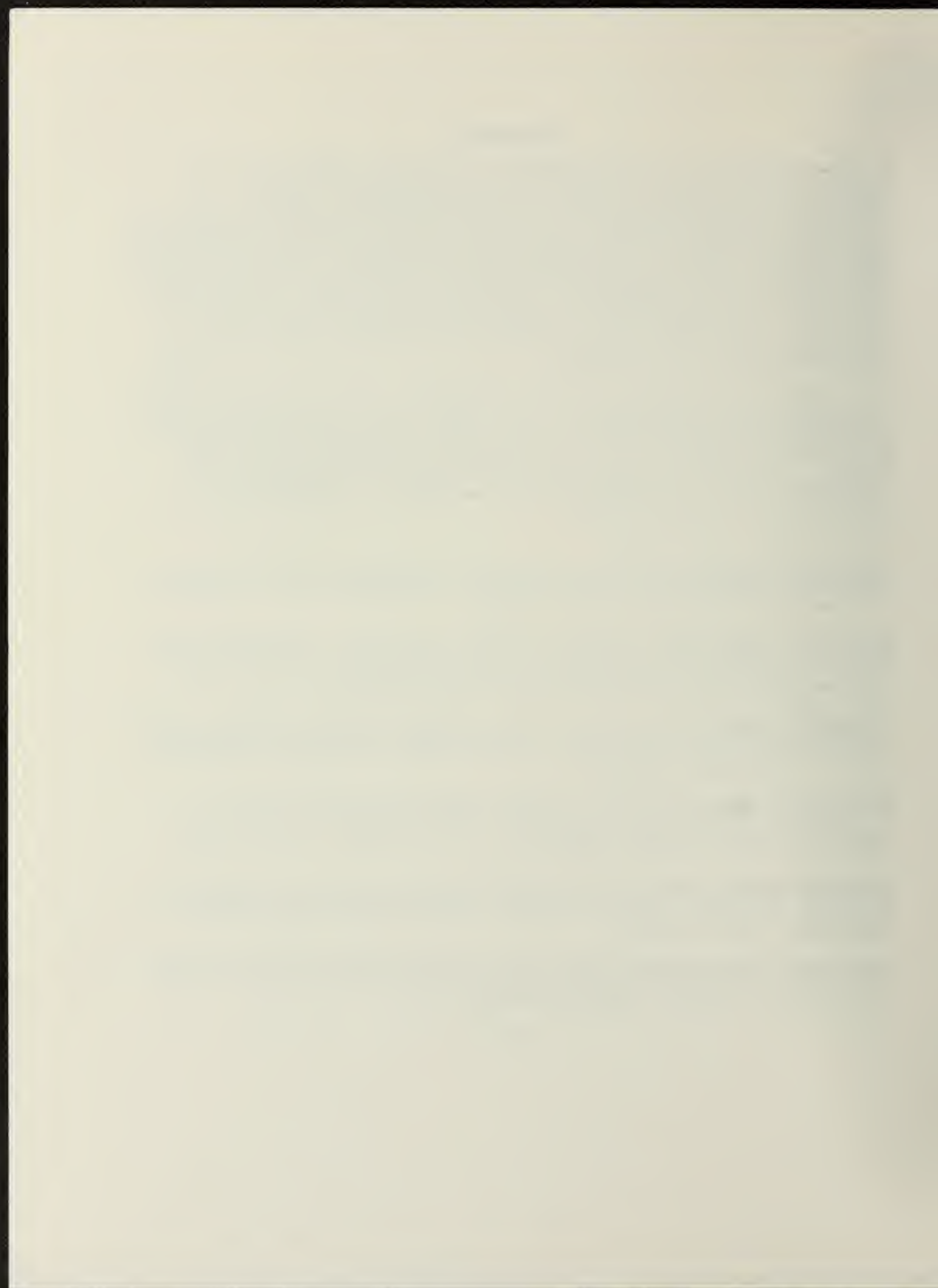
Fluoridation Census, 1969, Division of Dental Health, National Institutes of Health, U.S. Department of Health, Education, and Welfare. Natural Fluoride Content of Community Water Supplies, Division of Dental Health, NIH, DHEW. U.S. Government Printing Office Publication #1970 O-380-791.

Fluoridation Census, 1975, Dental Disease Prevention Activity, Bureau of State Services, Center for Disease Control, Public Health Service, U.S. Department of Health, Education, and Welfare. U.S. Government Printing Office Publication # 1977 - 740-116/3782, Region No. 4.

Fluoridation Census, 1980, Dental Disease Prevention Activity, Center for Prevention Services, Centers for Disease Control, Public Health Service, U.S. Department of Health and Human Services. U.S. Government Printing Office Publication #1984 - 751-641, Region No. 4.

Fluoridation Census, 1985, Dental Disease Prevention Activity, Center for Prevention Services, Centers for Disease Control, Public Health Service, U.S. Department of Health and Human Services. U.S. Government Printing Office Publication # 1988 - 535-439.

Fluoridation Census Summary, 1988, Dental Disease Prevention Activity, Center for Prevention Services, Centers for Disease Control, Public Health Service, U.S. Department of Health and Human Services.





SUMMARY OF FLUORIDATION STATISTICS



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TABLE 1
POPULATION AND PERCENT SERVED WITH ADJUSTED AND NATURAL FLUORIDATED
WATER BY REGION AND STATE AS OF DECEMBER 31, 1989

	TOTAL POPULATION*	POPULATION BY PUBLIC WATER SUPPLY**	POPULATION FLUORIDATED WATER	% PUBLIC WATER SUPPLY POPULATION DRINKING FLUORIDATED WATER	RANK
UNITED STATES	248,243,000	220,179,000	135,256,757	83.5	
REGION I	13,046,000	11,453,000	7,175,756	62.7	
CONNECTICUT	3,239,000	2,727,000	2,362,309	86.6	13
MAINE	1,222,000	819,000	438,041	53.5	36
MASSACHUSETTS	5,913,000	5,810,000	3,262,426	90.2	34
NEW HAMPSHIRE	1,107,000	734,000	147,367	20.1	46
RHODE ISLAND	998,000	942,000	732,986	71.9	21
VERMONT	567,000	421,000	232,627	54.1	35
REGION II	25,686,000	28,380,000	15,365,540	54.1	
NEW JERSEY*	7,736,000	7,736,000	1,170,047	15.1	49
NEW YORK	17,950,000	16,612,000	11,674,181	70.3	26
PUERTO RICO*	3,291,000	3,291,000	2,521,312	62.5	26
REGION III	25,966,000	21,830,000	14,748,622	67.6	
DELAWARE	673,000	625,000	439,871	70.4	26
DISTRICT OF COLUMBIA	604,000	604,000	604,000	100.0	1
MARYLAND	4,694,000	3,818,000	3,438,289	90.1	8
PENNSYLVANIA	12,040,000	10,154,000	5,153,056	50.1	38
VIRGINIA	6,098,000	4,950,000	3,927,673	79.3	19
WEST VIRGINIA	1,207,000	1,679,000	1,185,733	86.9	24
REGION I'	44,596,000	37,464,000	27,228,863	72.7	
ALABAMA	4,118,000	3,761,000	3,111,359	82.9	12
FLORIDA	12,671,000	10,966,000	6,625,372	99.9	38
GEORGIA	6,436,000	5,499,000	4,711,222	85.7	16
KENTUCKY	3,727,000	3,307,000	2,606,159	78.3	26
MISSISSIPPI	2,621,000	2,417,000	1,236,414	51.2	37
NORTH CAROLINA	6,571,000	4,894,000	3,329,736	71.9	22
SOUTH CAROLINA	3,512,000	2,779,000	2,423,325	84.2	16
TENNESSEE	4,940,000	4,094,000	3,557,276	86.9	12
REGION V	46,651,000	37,557,000	34,903,643	92.9	
ILLINOIS	11,658,000	10,605,000	10,605,000	100.0	1
INDIANA	5,593,000	3,761,000	3,759,967	99.9	3
MICHIGAN	9,273,000	6,863,000	6,187,361	90.2	7
MINNESOTA	6,098,000	3,688,000	3,079,917	83.5	17
OHIO	10,907,000	9,314,000	8,291,075	89.0	10
WISCONSIN	4,867,000	3,326,000	2,980,323	89.6	9

*Based on 1988 Bureau of Census estimates

**Federal Reporting Data Systems FWS service populations exceeded the Bureau of Census estimates for DC, HI, IL, NJ, NV, UT, TX & PR.

+Data for these States based on previous Fluoridation Censuses.

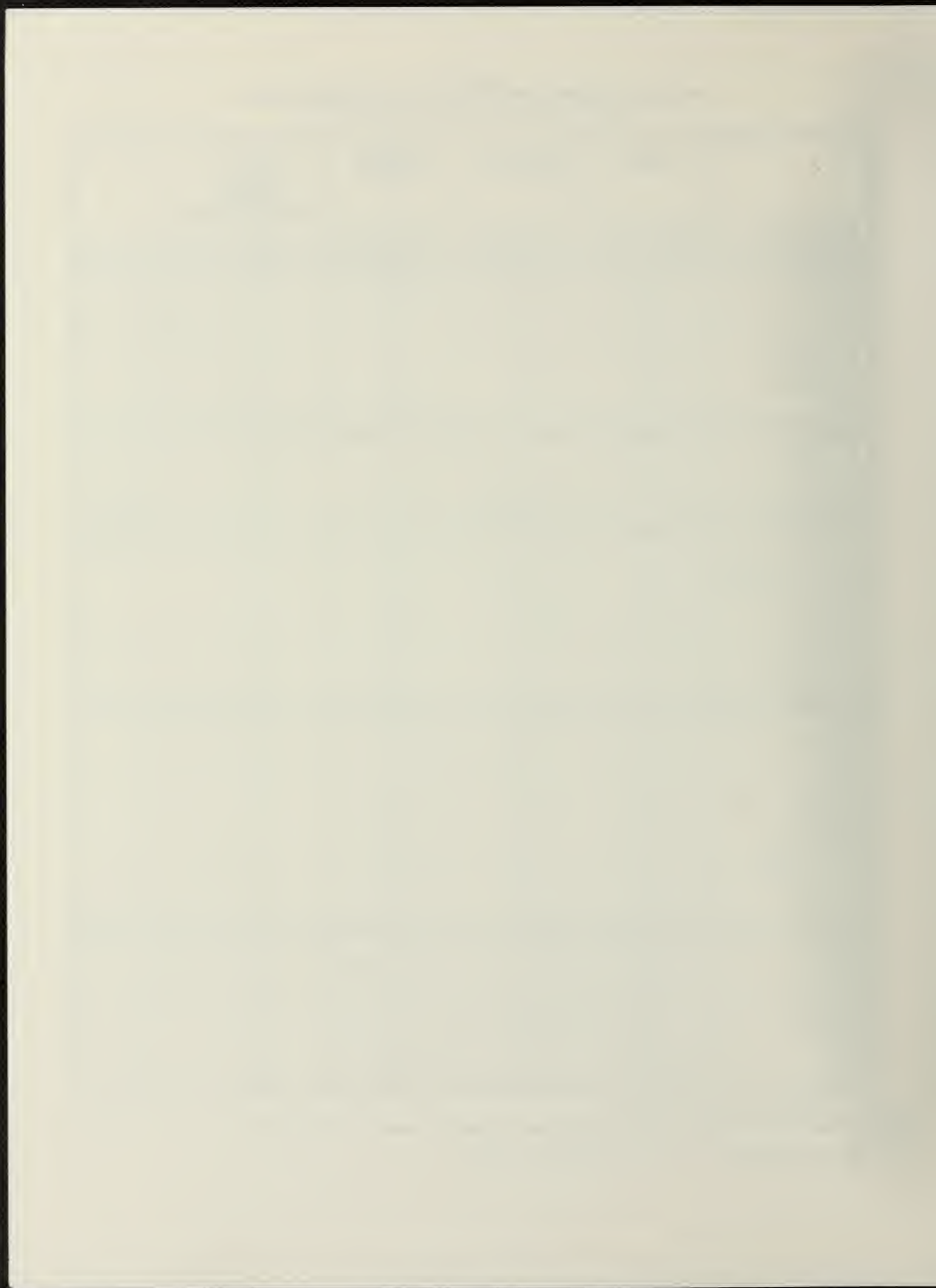


TABLE 1 (CONTINUED)
POPULATION AND PERCENT SERVED WITH ADJUSTED AND NATURAL FLUORIDATED
WATER BY REGION AND STATE AS OF DECEMBER 31, 1989

	TOTAL POPULATION*	POPULATION BY PUBLIC WATER SUPPLY**	POPULATION FLUORIDATED WATER	% PUBLIC WATER SUPPLY POPULATION DRINKING FLUORIDATED WATER	RANK
UNITED STATES	248,243,000	220,179,000	135,256,757	60.1	
REGION VI	28,531,000	27,073,000	16,599,420	61.3	
ARKANSAS	2,846,000	1,963,000	1,179,731	60.1	31
LOUISIANA	4,382,000	4,091,000	1,978,703	48.0	39
NEW MEXICO	1,528,000	1,306,000	810,586	60.1	30
OKLAHOMA	3,224,000	2,722,000	1,617,232	59.4	32
TEXAS	16,991,000	16,991,000	11,013,168	90.6	23
REGION VII	12,123,000	10,552,000	6,947,743	65.8	
IOWA	2,840,000	2,361,000	2,037,802	86.3	14
KANSAS	2,513,000	2,469,000	992,375	40.2	42
MISSOURI	5,159,000	4,616,000	3,128,456	60.1	27
NEBRASKA	1,611,000	1,106,000	789,110	71.3	23
REGION VIII	7,680,000	7,015,000	4,321,663	61.6	
COLORADO	3,317,000	2,270,000	2,961,682	90.6	5
MONTANA*	806,000	580,000	169,085	29.0	44
NORTH DAKOTA	806,000	513,000	475,074	90.6	5
SOUTH DAKOTA	715,000	555,000	546,177	98.4	4
UTAH	1,707,000	1,707,000	42,733	2.5	51
WYOMING	475,000	390,000	126,912	32.5	43
REGION IX	34,842,000	31,743,000	5,052,270	15.9	
ARIZONA	3,556,000	3,091,000	617,749	20.0	47
CALIFORNIA	29,063,000	26,428,000	4,268,060	16.2	42
HAWAII	1,112,000	1,112,000	142,570	12.8	50
NEVADA*	1,111,000	1,111,000	23,891	2.2	52
REGION X	9,122,000	7,112,000	2,913,237	41.0	
ALASKA	527,000	363,000	321,321	90.6	11
IDAHO	1,014,000	700,000	300,027	42.9	41
OREGON	2,820,000	2,188,000	506,920	23.2	45
WASHINGTON	4,761,000	3,861,000	1,784,969	46.2	40

*Based on 1989 Bureau of Census estimates

**Federal Reporting Data System FWS service populations exceeded the Bureau of Census estimates for DC, HI, IL, NJ, NV, UT, TX & PR.

+Data for these States based on previous Fluoridation Censuses.

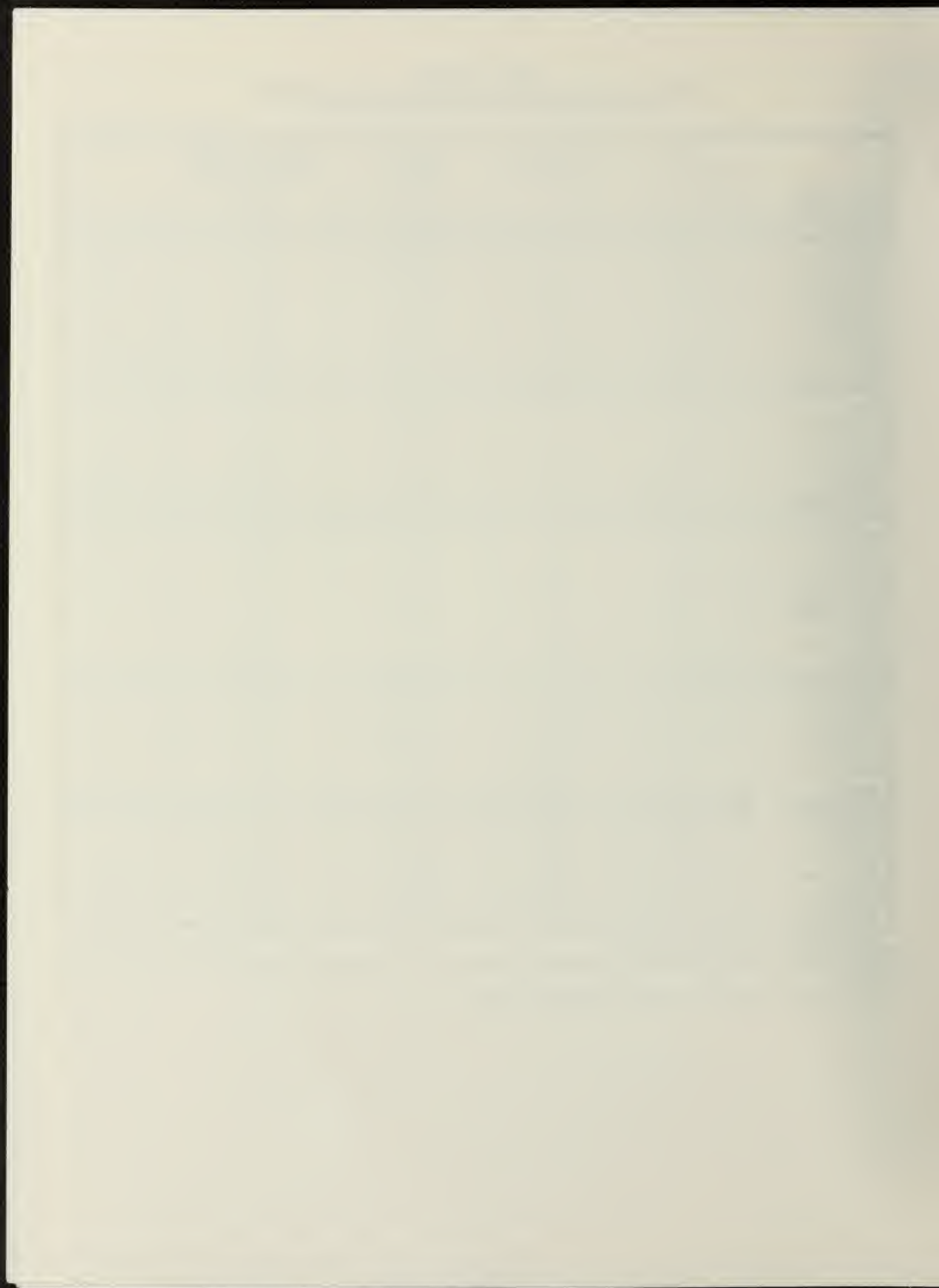


TABLE II
NUMBER OF PUBLIC WATER SYSTEMS, COMMUNITIES, AND POPULATIONS USING
ADJUSTED AND NATURAL FLUORIDATION BY REGION AS OF DECEMBER 31, 1989

	USING ADJUSTED			USING NATURAL		
	SYSTEMS*	COMMUNITIES	POPULATION	SYSTEMS*	COMMUNITIES	POPULATION
UNITED STATES	9,411	8,081	128,457,294	3,463	1,869	9,315,642
REGION I	259	347	7,163,529	71	0	12,227
CONNECTICUT	36	42	2,361,279	4	0	1,030
MAINE	62	90	438,041	3	0	0
MASSACHUSETTS	73	175	3,262,029	3	0	397
NEW HAMPSHIRE	11	9	136,567	64	2	10,800
RHODE ISLAND	18	20	732,986	4	0	0
VERMONT	59	90	232,627	5	0	0
REGION II	720	700	15,250,259	19	20	115,281
NEW JERSEY	28	66	1,056,302	15	20	113,745
NEW YORK	653	592	11,672,645	4	0	1,536
PUERTO RICO	39	42	2,521,312	5	0	0
REGION III	505	950	14,760,398	252	87	268,224
DELAWARE	9	11	432,700	5	0	7,171
DISTRICT OF COLUMBIA	2	1	604,000	4	0	0
MARYLAND	122	74	3,389,676	64	34	48,613
PENNSYLVANIA	135	545	5,153,056	5	0	0
VIRGINIA	122	175	3,715,892	202	50	211,781
WEST VIRGINIA	138	144	1,185,074	1	0	659
REGION IV	1,812	1,268	25,778,787	292	90	1,450,066
ALABAMA	252	173	3,047,360	71	19	63,999
FLORIDA	101	131	5,371,616	27	34	881,756
GEORGIA	283	700	4,694,957	5	0	16,265
KENTUCKY	260	212	2,606,159	0	0	0
MISSISSIPPI	216	127	1,140,324	69	12	96,090
NORTH CAROLINA	237	148	3,248,435	29	20	81,301
SOUTH CAROLINA	170	42	2,112,670	134	2	310,655
TENNESSEE	260	148	3,557,276	3	0	0
REGION V	3,526	2,810	35,555,915	869	529	1,582,407
ILLINOIS	1,342	979	9,964,403	206	147	641,021
INDIANA	434	305	3,496,527	93	19	263,440
MICHIGAN	362	240	6,068,551	64	52	118,810
MINNESOTA	667	650	3,075,805	14	12	4,112
OHIO	395	367	8,047,628	310	115	243,447
WISCONSIN	326	269	2,803,780	152	124	176,543

*Note: Systems refers to fluoridating systems plus consecutive systems.



TABLE II (CONTINUED)
NUMBER OF PUBLIC WATER SYSTEMS, COMMUNITIES, AND POPULATIONS USING
ADJUSTED AND NATURAL FLUORIDATION BY REGION AS OF DECEMBER 31, 1989

	USING ADJUSTED			USING NATURAL		
	SYSTEMS*	COMMUNITIES	POPULATION	SYSTEMS*	COMMUNITIES	POPULATION
UNITED STATES	9,411	8,081	128,457,294	3,463	1,869	9,315,642
REGION VI	750	162	13,138,025	778	401	2,462,895
ARKANSAS	164	105	1,168,376	14	7	12,855
LOUISIANA	51	73	1,744,824	95	33	233,879
NEW MEXICO	70	18	564,973	86	41	245,613
OKLAHOMA	173	102	1,508,080	55	36	109,152
TEXAS	750	173	8,151,772	528	298	2,861,396
REGION VII	721	738	6,295,549	434	350	652,194
IOWA	345	343	1,724,723	226	174	313,079
KANSAS	105	129	838,100	43	12	154,275
MISSOURI	216	209	2,975,665	82	64	152,791
NEBRASKA	55	57	757,061	43	35	32,049
REGION VIII	595	465	3,323,399	536	273	998,264
COLORADO	150	60	2,161,000	298	106	800,682
MONTANA	32	9	65,296	69	86	103,789
NORTH DAKOTA	133	132	448,039	78	60	27,035
SOUTH DAKOTA	261	251	506,931	69	60	39,246
UTAH	11	4	36,709	15	7	6,024
WYOMING	8	9	105,424	12	11	21,488
REGION IX	150	70	4,625,525	103	47	426,745
ARIZONA	71	7	212,586	103	43	405,163
CALIFORNIA	70	70	4,267,960	0	0	100
HAWAII	10	9	142,570	7	7	0
NEVADA	11	3	2,409	16	0	21,482
REGION X	357	221	2,565,898	78	66	347,339
ALASKA	197	135	321,321	0	0	0
IDAHO	14	9	54,687	40	34	245,340
OREGON	37	37	465,220	20	20	41,700
WASHINGTON	109	50	1,724,670	16	12	60,299

*Note: Systems refers to fluoridating systems plus consecutive systems.

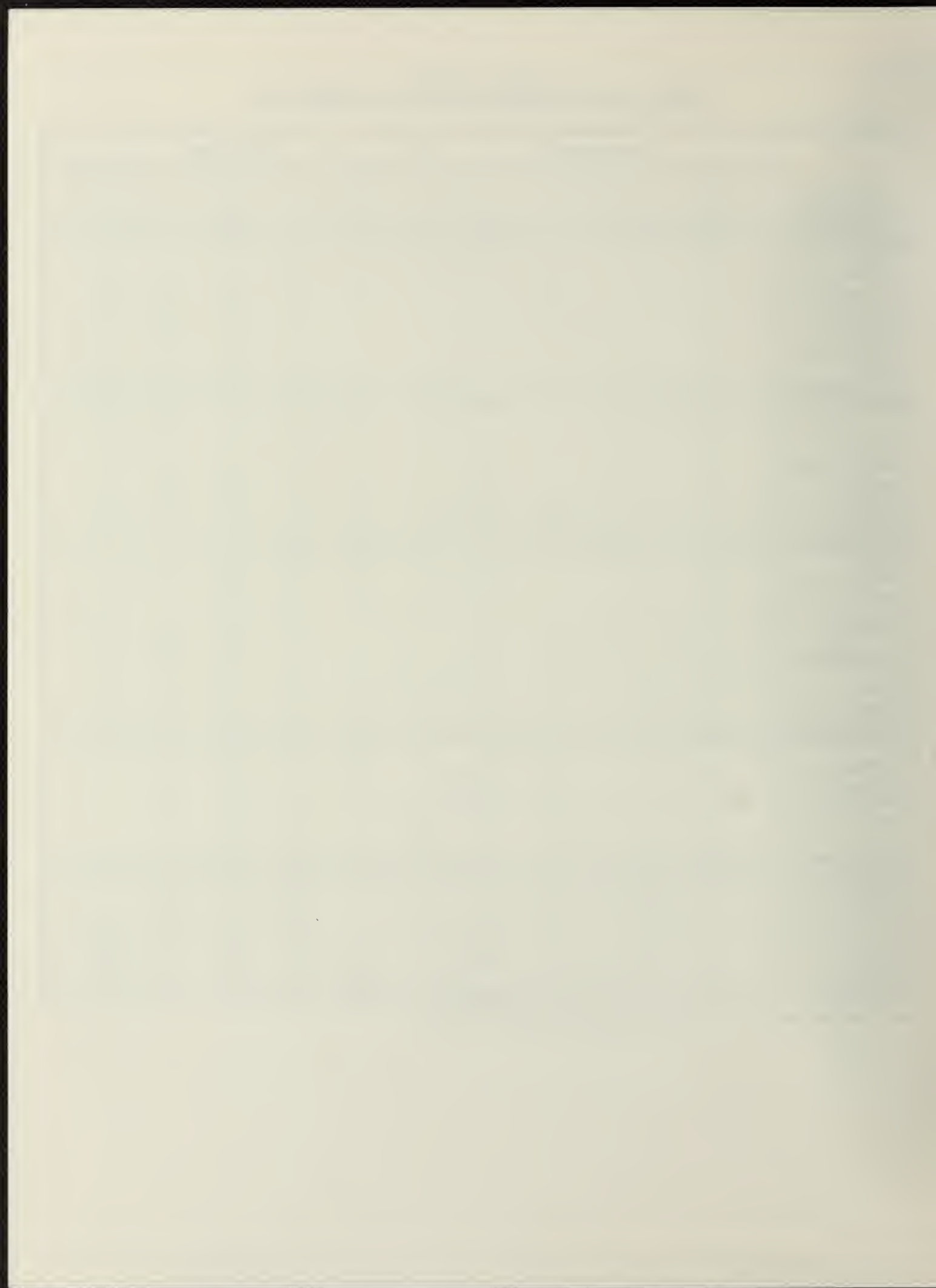


TABLE III
SCHOOL POPULATION AND NUMBER OF SCHOOLS USING ADJUSTED
AND NATURAL FLUORIDATION BY REGION AND STATE AS OF DECEMBER 31, 1989

	USING ADJUSTED*		USING NATURAL*	
	POPULATION	NUMBER OF SCHOOLS	POPULATION	NUMBER OF SCHOOLS
UNITED STATES	122,458	351	3,620	12
REGION I	5,630	23	0	0
VERMONT	5,630	23	0	0
REGION III	3,020	5	0	0
VIRGINIA	3,020	5	0	0
REGION IV	67,041	182	0	0
KENTUCKY	24,933	78	0	0
NORTH CAROLINA	41,658	103	0	0
SOUTH CAROLINA	450	0	0	0
REGION V	44,703	133	6,719	2
INDIANA	35,899	85	0	0
MINNESOTA	1,543	5	0	0
WISCONSIN	7,261	43	6,719	2
REGION VI	1,410	2	1,045	6
NEW MEXICO	1,410	2	1,045	0
REGION VII	0	0	400	0
MISSOURI	0	0	400	0
REGION IX	170	1	660	3
ARIZONA	170	1	660	3
REGION X	484	5	0	0
ALASKA	484	5	0	0

*Schools are fluoridated at 4.5 times the recommended optimal level for communities.
Note: Schools include all American Indian and Alaskan Native Reservation Schools



TABLE IV
POPULATION, NUMBER OF AMERICAN INDIAN AND ALASKAN NATIVE
RESERVATIONS USING ADJUSTED AND NATURAL FLUORIDATION, BY REGION AND STATE AS OF
DECEMBER 31, 1989

	SYSTEMS			
	ADJUSTED		NATURAL	
	POPULATION	NUMBER OF SYSTEMS	POPULATION	NUMBER OF SYSTEMS
UNITED STATES	255,030	458	17,348	58
REGION I	1,225	2	0	0
MAINE	1,225	2	0	0
REGION IV	4,139	90	0	1
FLORIDA	N/R	2	0	0
MISSISSIPPI	2,378	3	0	2
NORTH CAROLINA	1,761	5	N/R	0
REGION V	8,137	11	0	0
WISCONSIN	8,137	11	0	0
REGION VI	52,060	48	8,978	30
NEW MEXICO	51,520	46	5,673	30
OKLAHOMA	540	2	0	0
REGION VII	7,296	5	0	0
IOWA	286	1	0	0
MISSOURI	4,080	1	0	0
NEBRASKA	2,930	3	0	0
REGION VIII	48,192	109	1,143	7
COLORADO	1,400	1	0	0
MONTANA	5,877	19	419	3
NORTH DAKOTA	10,189	16	465	1
SOUTH DAKOTA	23,949	65	84	1
UTAH	5,109	7	175	2
WYOMING	1,668	1	0	0
REGION IX	69,253	98	6,777	19
ARIZONA	60,816	67	6,070	15
CALIFORNIA	6,053	21	175	1
NEVADA	2,384	10	607	3
REGION X	64,728	175	450	1
ALASKA	50,428	140	0	0
IDAHO	1,295	4	0	0
OREGON	3,480	5	0	0
WASHINGTON	9,525	26	450	1

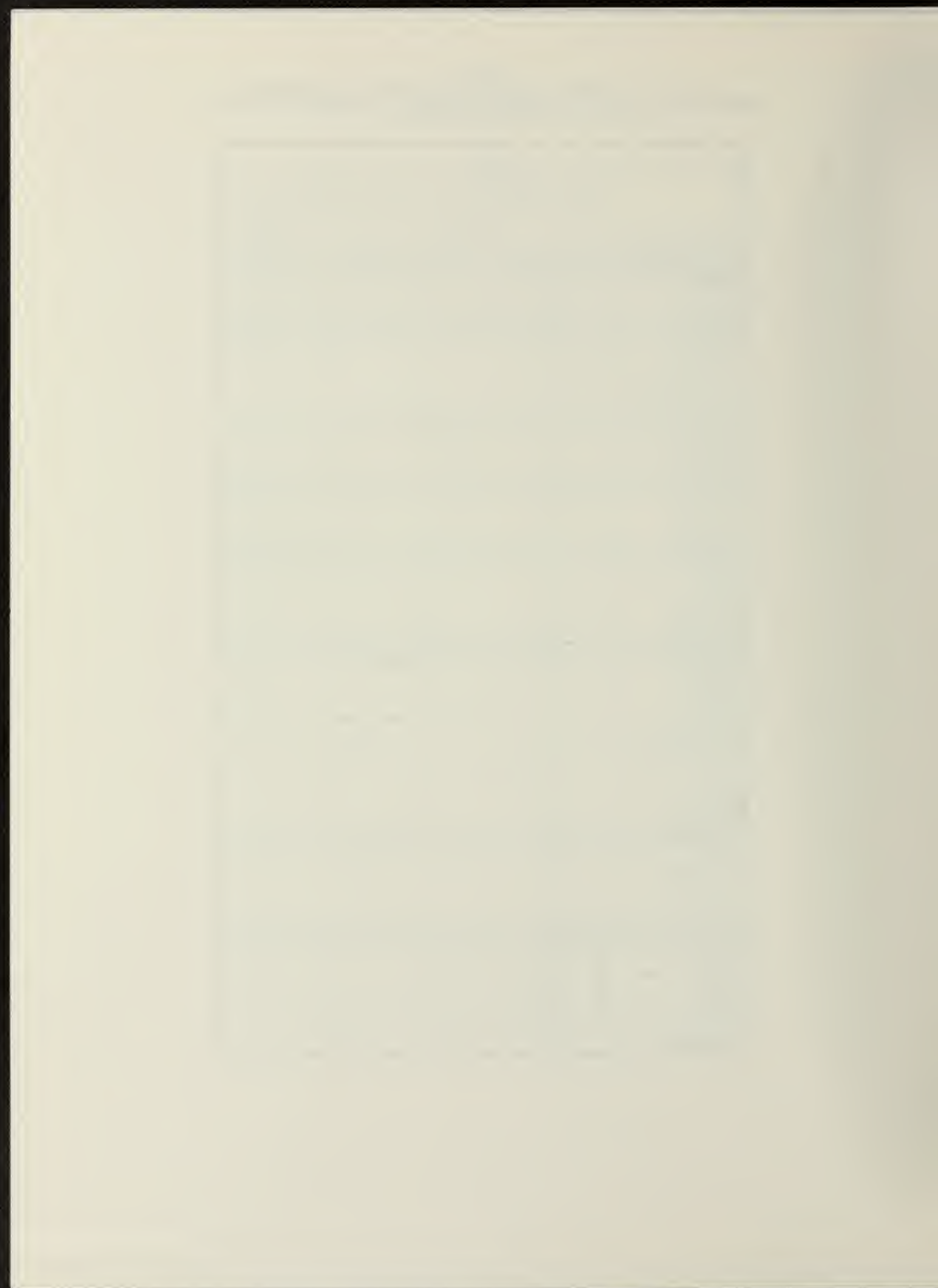


TABLE IV (CONTINUED)
POPULATION, NUMBER OF AMERICAN INDIAN AND ALASKAN NATIVE
RESERVATIONS USING ADJUSTED AND NATURAL FLUORIDATION, BY REGION AND STATE AS OF
DECEMBER 31, 1989

SCHOOLS*				
	ADJUSTED		NATURAL	
	POPULATION	NUMBER OF SYSTEMS	POPULATION	NUMBER OF SCHOOLS
UNITED STATES	2,064	8	8,824	12
REGION V	0	0	6,719	2
WISCONSIN	0	2	6,719	2
REGION V	1,410	2	1,045	6
NEW MEXICO	1,410	8	1,045	6
REGION VII	0	0	400	1
MISSOURI	0	0	400	1
REGION IX	170	1	660	3
ARIZONA	170	1	660	3
REGION X	484	5	0	0
ALASKA	484	5	0	0

*Schools are fluoridated at 4.5 times the recommended optimal level for communities.

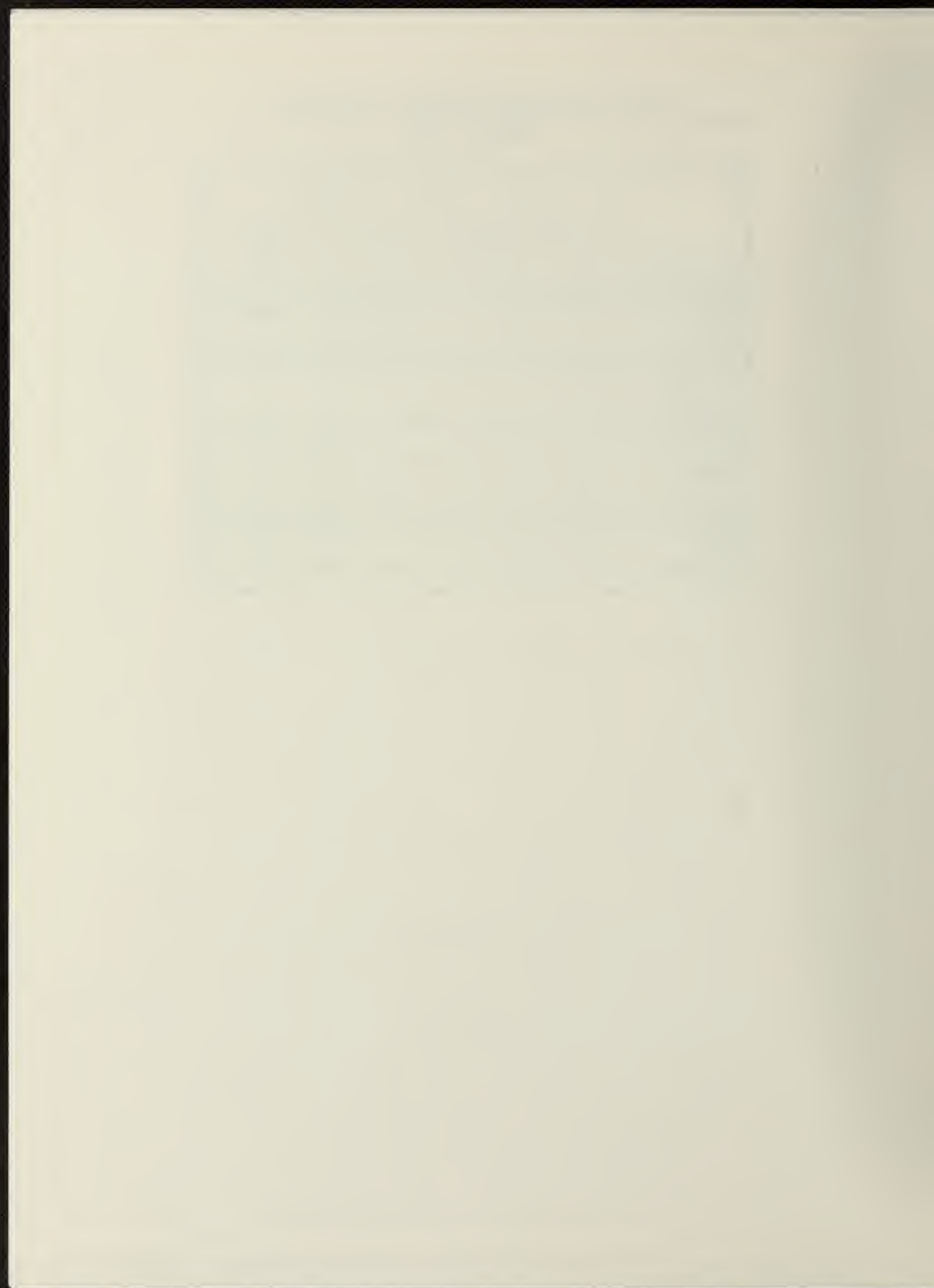


TABLE V
RESIDENT POPULATION, NUMBER OF MILITARY INSTALLATIONS USING
ADJUSTED AND NATURAL FLUORIDATION, BY REGION AND STATE, AS OF DECEMBER 31, 1989

	ADJUSTED		NATURAL	
	RESIDENT POPULATION USING ADJUSTED	INSTALLATIONS ADJUSTED	RESIDENT POPULATION USING ADJUSTED	INSTALLATIONS NATURAL
UNITED STATES	1,252,436	131	51,454	18
REGION I	18,225	5	0	0
MAINE	10,200	2	0	0
MASSACHUSETTS	8,000	2	0	0
NEW HAMPSHIRE	25	1	0	0
REGION II	45,552	4	0	2
NEW JERSEY	89,900	3	0	0
NEW YORK	9,000	1	0	0
REGION III	70,117	11	2,027	2
DELAWARE	6,400	2	0	0
MARYLAND	52,003	7	2,027	2
VIRGINIA	11,714	2	0	0
REGION IV	512,599	45	8,276	0
ALABAMA	31,763	4	0	0
FLORIDA	109,127	12	5,100	1
GEORGIA	89,900	6	0	0
KENTUCKY	23,400	1	0	0
MISSISSIPPI	32,497	3	0	0
NORTH CAROLINA	120,200	10	0	0
SOUTH CAROLINA	44,593	6	3,176	1
TENNESSEE	61,119	3	0	0
REGION V	82,995	3	1,639	2
ILLINOIS	61,795	5	139	1
INDIANA	1,500	1	0	0
MICHIGAN	10,200	3	0	0
OHIO	0	0	1,500	1



TABLE V (CONTINUED)
RESIDENT POPULATION, NUMBER OF MILITARY INSTALLATIONS USING
ADJUSTED AND NATURAL FLUORIDATION, BY REGION AND STATE, AS OF DECEMBER 31, 1989

	ADJUSTED		NATURAL	
	RESIDENT POPULATION USING ADJUSTED	INSTALLATIONS ADJUSTED	RESIDENT POPULATION USING ADJUSTED	INSTALLATION NATURAL
UNITED STATES	1,252,436	131	51,454	18
REGION VI	169,421	22	7,200	3
ARKANSAS	14,170	2	0	3
LOUISIANA	22,100	3	1,700	1
OKLAHOMA	16,224	5	0	0
TEXAS	116,927	12	5,500	2
REGION VII	64,287	9	4,000	1
KANSAS	33,000	3	0	0
MISSOURI	22,500	1	4,000	1
NEBRASKA	8,787	1	0	3
REGION VIII	47,418	5	7,602	2
MONTANA	3,000	1	7,602	2
NORTH DAKOTA	29,518	2	0	0
SOUTH DAKOTA	5,000	1	0	2
UTAH	9,900	1	0	5
REGION IX	142,570	10	20,710	6
ARIZONA	0	9	19,200	5
HAWAII	142,570	10	0	5
NEVADA	0	9	1,510	1
REGION X	99,252	10	0	2
ALASKA	35,543	9	0	5
IDAHO	6,000	1	0	0
WASHINGTON	57,709	3	0	0

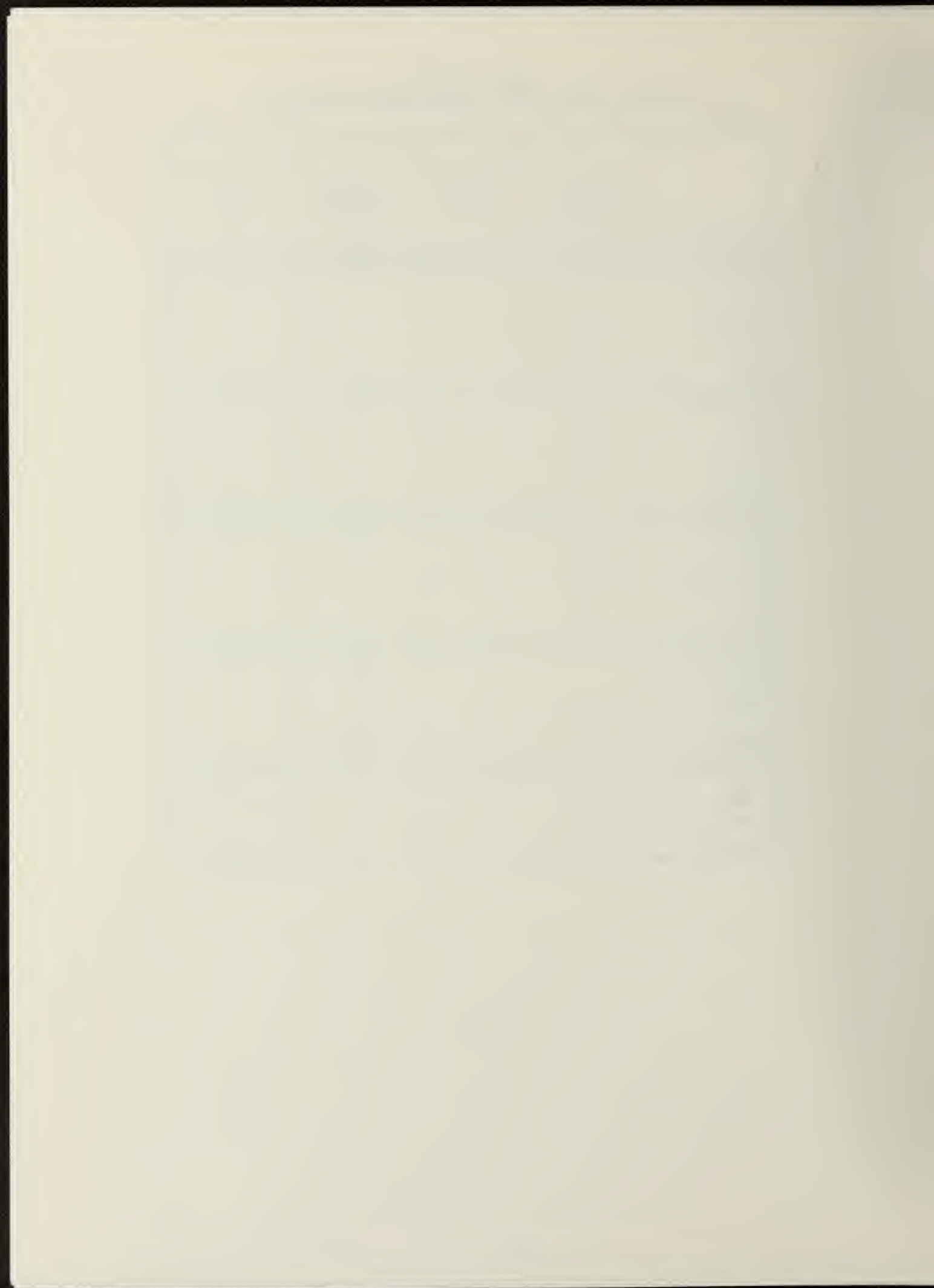


TABLE VI
NUMBER OF PUBLIC WATER SUPPLY SYSTEMS AND POPULATION SERVED BY EACH
OF THE MAJOR CHEMICALS BY REGION AS OF DECEMBER 31, 1989

	HYDROFLUOSILICIC ACID		SODIUM SILICOFLUORIDE		SODIUM FLUORIDE	
	POPULATION	#SYSTEMS	POPULATION	#SYSTEMS	POPULATION	#SYSTEMS
UNITED STATES	75,295,924	5,187	35,050,494	1,432	11,474,400	2,431
REGION I	4,165,319	103	1,592,467	29	950,443	126
CONNECTICUT	1,668,039	24	559,500	5	133,740	7
MAINE	283,601	35	72,500	2	81,940	25
MASSACHUSETTS	2,373,338	22	270,980	5	617,711	46
NEW HAMPSHIRE	87,942	5	0	0	48,625	6
RHODE ISLAND	88,199	1	639,487	15	0	0
VERMONT	114,200	16	50,000	0	68,427	42
REGION II	4,289,766	556	8,001,728	67	2,756,369	23
NEW JERSEY	645,005	18	317,600	0	80,697	6
NEW YORK	3,644,761	538	7,684,126	64	154,360	37
PUERTO RICO	0	0	0	0	2,521,312	39
REGION III	9,127,881	207	2,019,624	10	1,545,948	174
DELAWARE	0	0	140,000	0	43,400	5
DISTRICT OF COLUMBIA	604,000	1	0	0	0	0
MARYLAND	2,065,870	56	130,353	7	38,350	12
PENNSYLVANIA	3,746,844	71	513,269	28	245,742	23
VIRGINIA	1,513,878	54	885,770	29	900,960	37
WEST VIRGINIA	517,346	25	350,232	16	317,496	37
REGION IV	13,414,146	674	8,470,948	373	2,712,369	672
ALABAMA	2,984,903	241	53,852	6	0	0
FLORIDA	2,709,456	58	2,382,120	10	9,412	5
GEORGIA	2,335,346	106	863,150	38	995,111	120
KENTUCKY	1,704,706	91	649,679	51	222,097	143
MISSISSIPPI	20,665	7	372,740	11	746,541	196
NORTH CAROLINA	1,156,172	58	1,378,260	10	343,607	126
SOUTH CAROLINA	986,652	59	918,879	38	206,839	25
TENNESSEE	1,516,246	46	1,852,268	157	188,762	57
REGION II	27,628,710	2,527	6,470,647	304	1,322,492	662
ILLINOIS	9,042,175	991	546,203	29	371,004	261
INDIANA	1,513,878	110	1,278,753	44	702,375	278
MICHIGAN	5,328,349	290	609,621	46	38,239	10
MINNESOTA	2,832,691	614	201,461	17	39,267	32
OHIO	4,811,100	277	3,148,770	85	56,933	28
WISCONSIN	2,195,156	245	570,744	26	36,496	53

Note: Chemical used was not indicated for all systems, so these data are not consistent with other summary tables.



TABLE VI (CONTINUED)
NUMBER OF PUBLIC WATER SUPPLY SYSTEMS AND POPULATION SERVED BY EACH
OF THE MAJOR CHEMICALS BY REGION AS OF DECEMBER 31, 1989

	HYDROFLUOSILICIC ACID		SODIUM SILICOFLUORIDE		SODIUM FLUORIDE	
	POPULATION	# SYSTEMS	POPULATION	# SYSTEMS	POPULATION	# SYSTEMS
UNITED STATES	75,295,924	5,187	35,050,494	1,432	11,474,400	2,431
REGION VI	8,490,225	360	3,888,665	260	746,450	130
ARKANSAS	677,248	69	481,729	89	7,514	6
LOUISIANA	1,747,024	52	0	0	0	0
NEW MEXICO	399,250	4	10,000	1	155,723	65
OKLAHOMA	188,642	34	1,099,206	118	220,232	21
TEXAS	5,478,061	201	2,297,730	52	362,981	38
REGION VII	4,983,675	464	1,175,103	102	321,427	141
IOWA	1,350,754	318	354,458	14	18,747	10
KANSAS	389,565	30	615,321	64	30,273	4
MISSOURI	2,538,719	73	168,618	18	268,328	125
NEBRASKA	704,637	43	36,706	6	4,079	2
REGION VIII	464,728	239	2,557,728	164	262,149	154
COLORADO	82,500	3	1,983,240	115	83,260	27
MONTANA	0	0	40,100	4	25,196	28
NORTH DAKOTA	156,131	92	256,628	15	35,280	26
SOUTH DAKOTA	210,250	141	168,551	23	106,436	68
UTAH	4,300	2	17,000	1	10,309	4
WYOMING	11,547	1	92,209	6	1,668	1
REGION IX	1,178,919	14	135,000	1	207,963	101
ARIZONA	12,000	1	135,000	1	56,386	61
CALIFORNIA	1,166,919	13	0	0	6,598	19
HAWAII	0	0	0	0	142,570	0
NEVADA	0	0	0	0	2,409	11
REGION X	1,102,555	43	738,586	52	648,790	188
ALASKA	0	0	0	0	257,639	125
IDAHO	0	0	48,842	8	5,845	6
OREGON	22,800	2	426,090	26	16,330	9
WASHINGTON	1,079,755	41	263,654	18	368,976	48

Note: Chemical used was not indicated for all systems, so these data are not consistent with other summary tables.



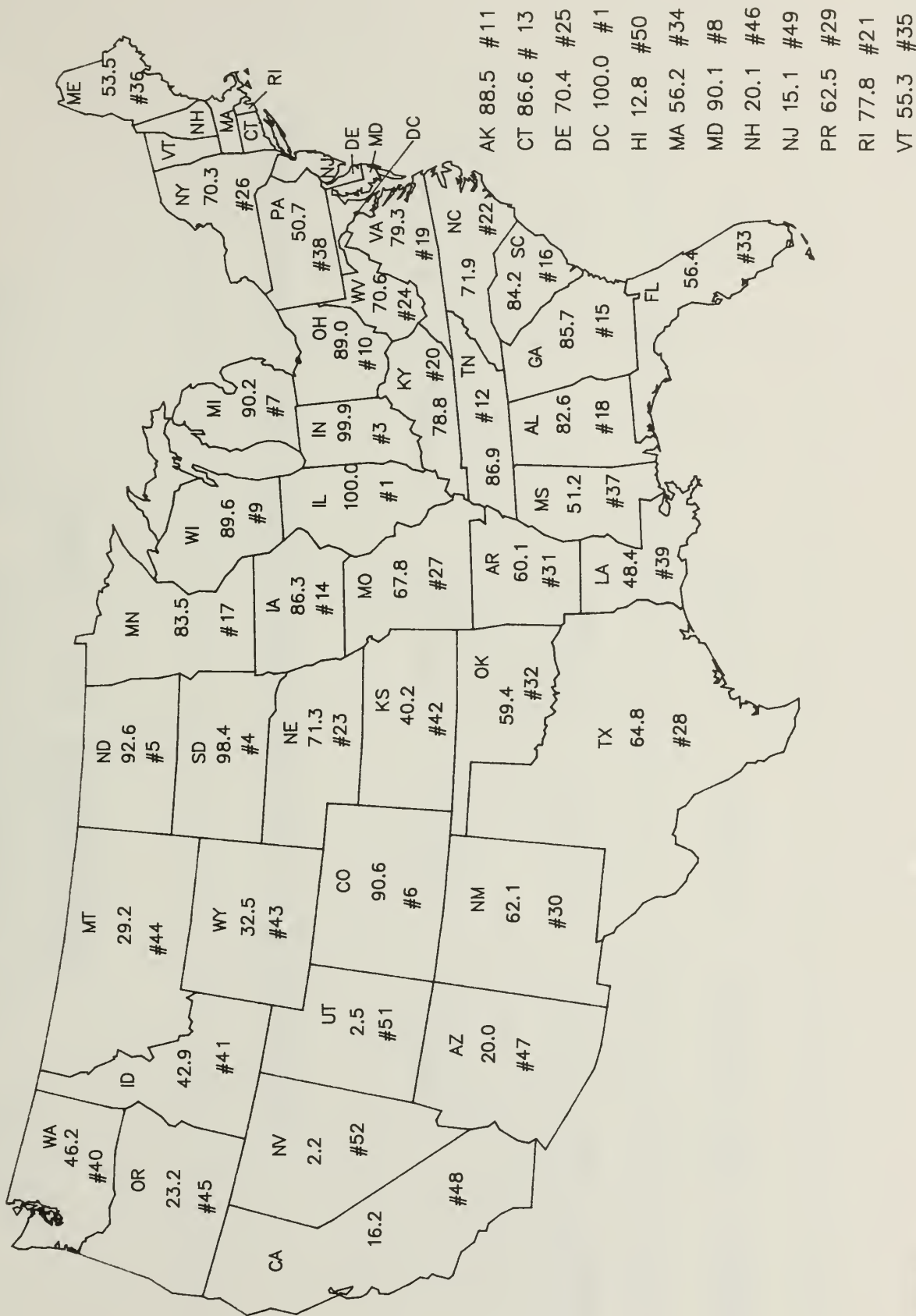


FLUORIDATION
STATISTICS
CHARTS

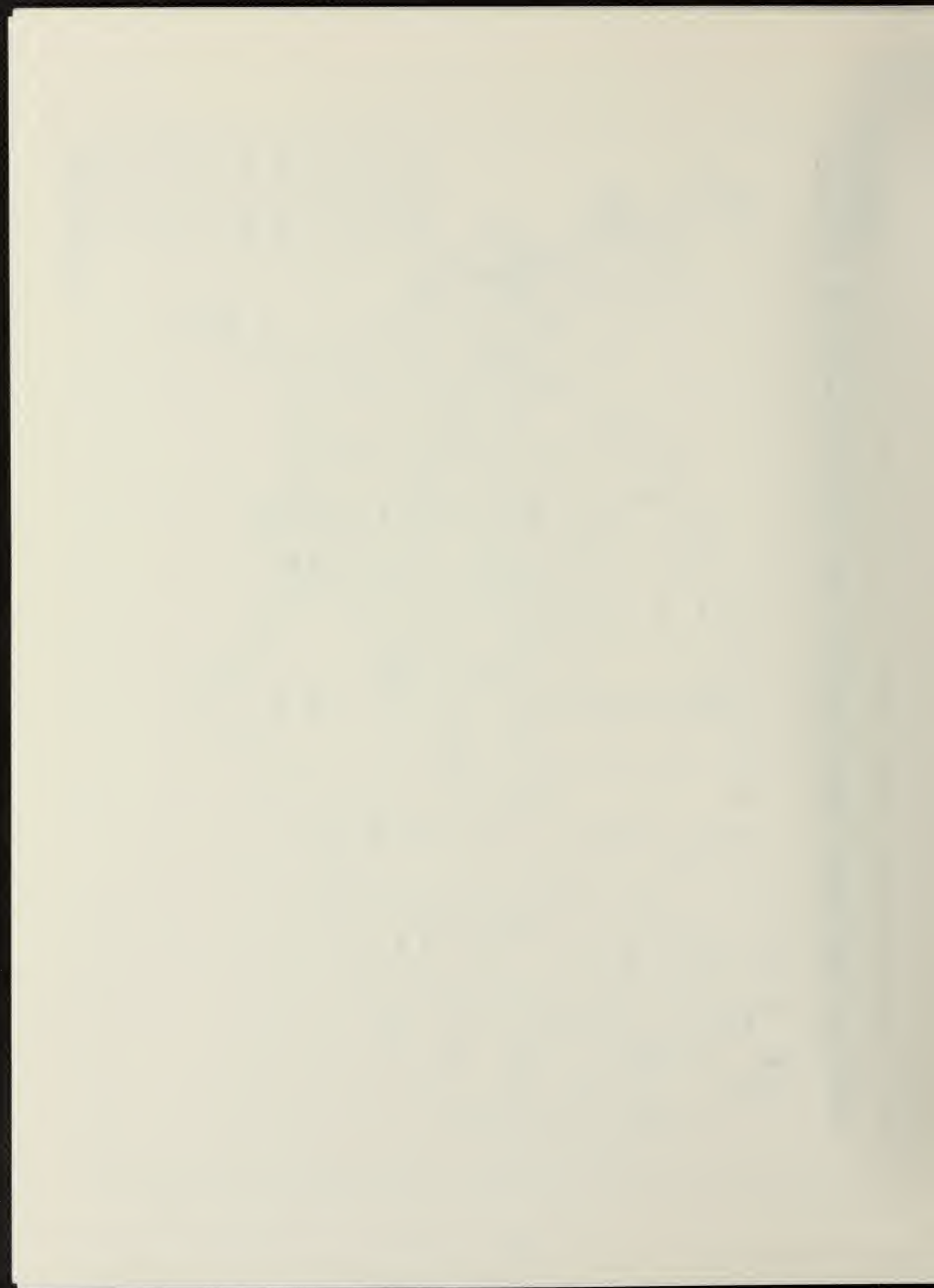


Chart 1

PERCENT OF PUBLIC WATER SUPPLY POPULATION USING FLUORIDATED WATER AND STATE RANK



CDC/CPS/DDPA



U.S. FLUORIDATION STATUS

DECEMBER 31, 1989

	UNITED STATES POPULATION	PUBLIC WATER SYSTEM POPULATION	FLUORIDATED POPULATION	PERCENT P.W.S. POP. FLUORIDATED	PERCENT U.S. POP. FLUORIDATED
DECEMBER 31, 1989	248,243,000	220,179,000	135,256,757	61.4	54.5
DECEMBER 31, 1985	243,195,000	211,730,873	130,172,334	61	54

CDC/CPS/DDPA

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1789

THE HISTORY OF THE
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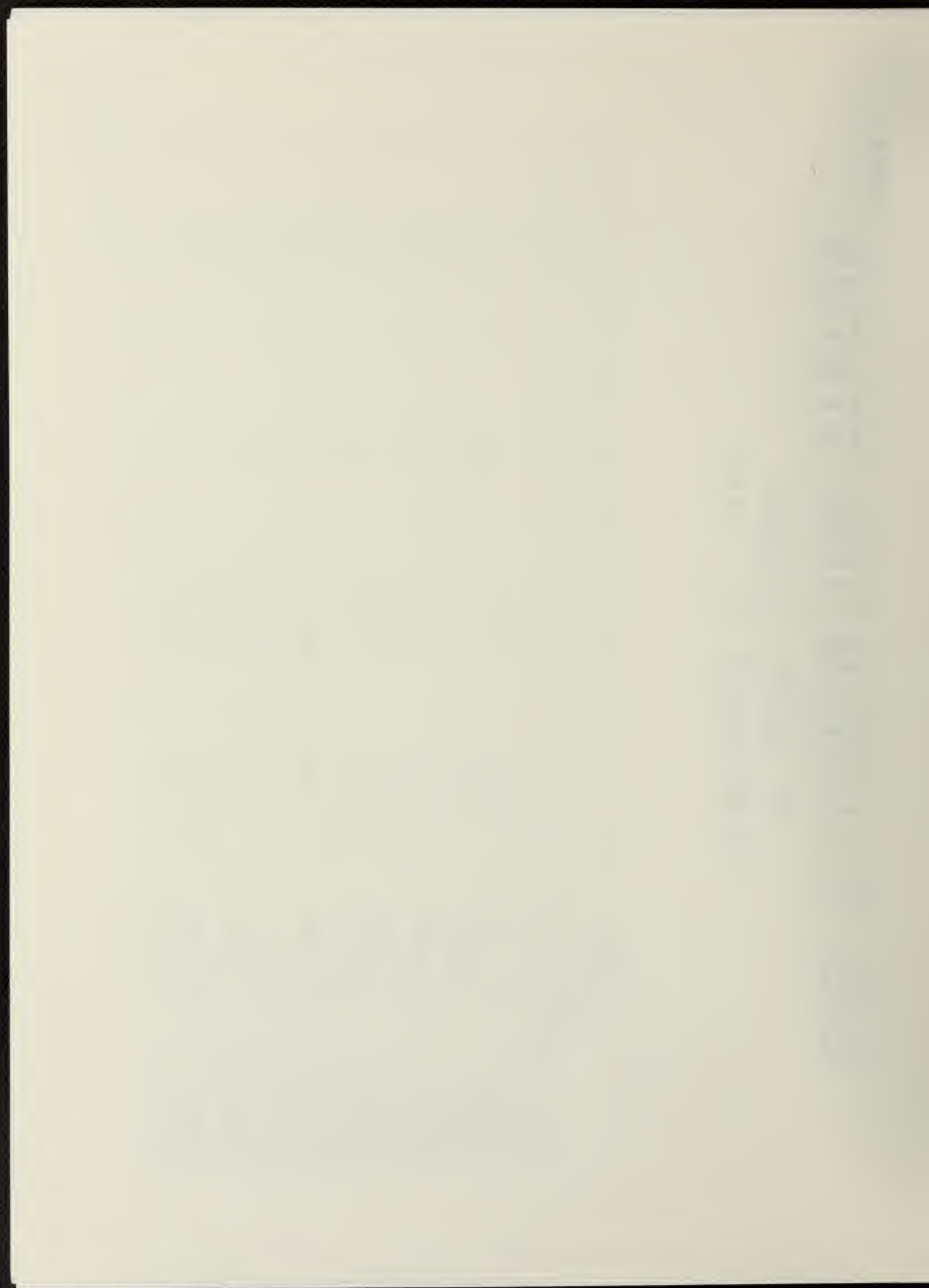
U.S. FLUORIDATION STATUS

BY DHHS REGION

DECEMBER 31, 1989

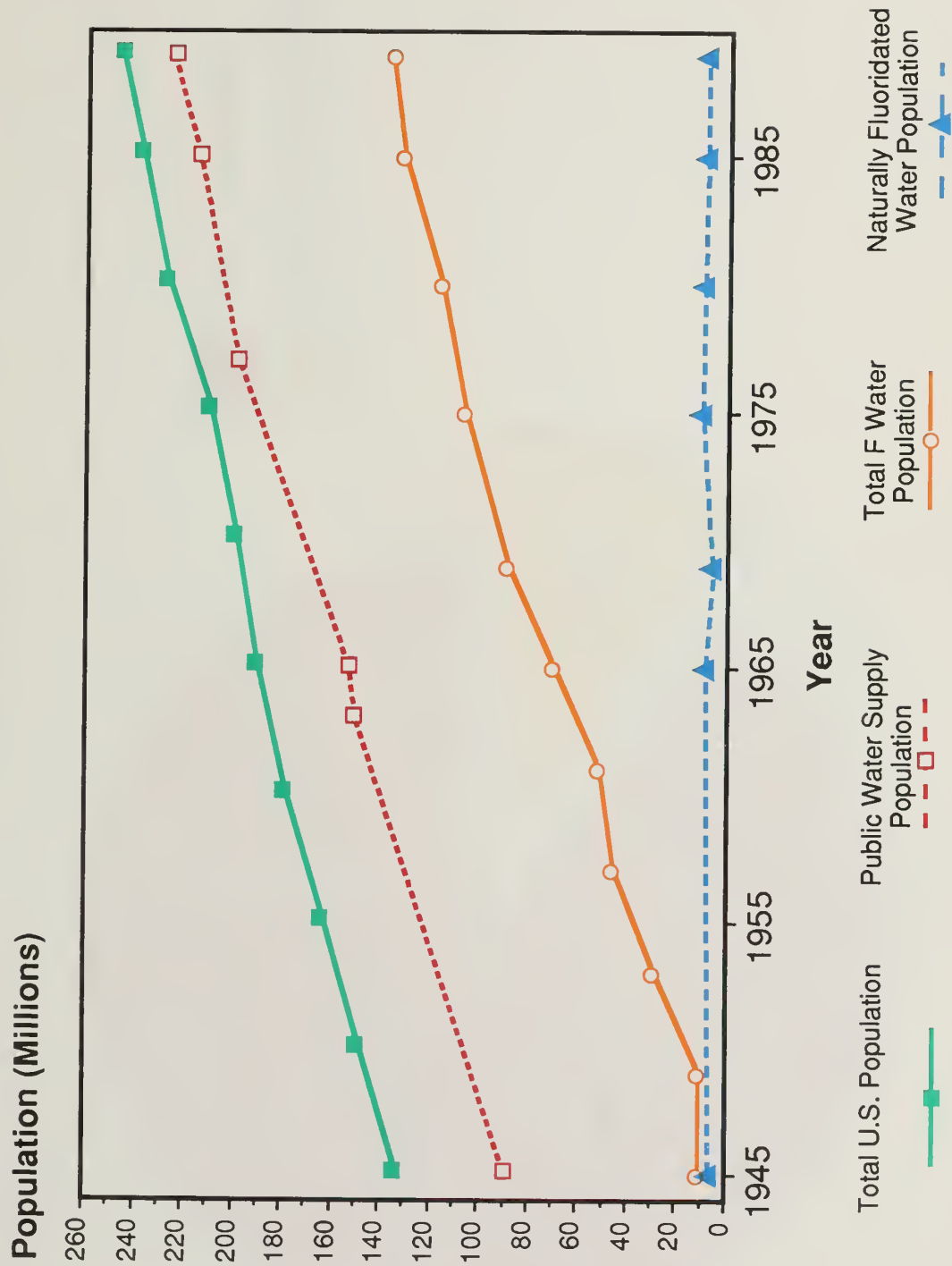
	TOTAL POPULATION	P.W. SYSTEM POPULATION	FLUORIDATED POPULATION	PERCENT P.W.S. FLUORIDATED	PERCENT TOTAL FLUORIDATED
TOTAL U.S.	248,243,000	220,179,000	135,256,757	61.4	54.5
REGION I	13,046,000	11,453,000	7,175,756	62.7	55.0
REGION II	25,686,000	28,380,000	15,365,540	54.1	59.8
REGION III	25,966,000	21,830,000	14,748,622	67.6	56.8
REGION IV	44,496,000	37,464,000	27,228,863	72.7	61.2
REGION V	46,651,000	37,557,000	34,903,643	92.9	74.8
REGION VI	28,531,000	27,073,000	16,599,420	61.3	58.2
REGION VII	12,123,000	10,552,000	6,947,743	65.8	57.3
REGION VIII	7,680,000	7,015,000	4,321,663	61.6	56.3
REGION IX	34,842,000	31,743,000	5,052,270	15.9	14.5
REGION X	9,122,000	7,112,000	2,913,237	41.0	31.9

CDC/CPS/DDPA



Fluoridation Growth, by Population, United States, 1945 – 1989

Chart 4



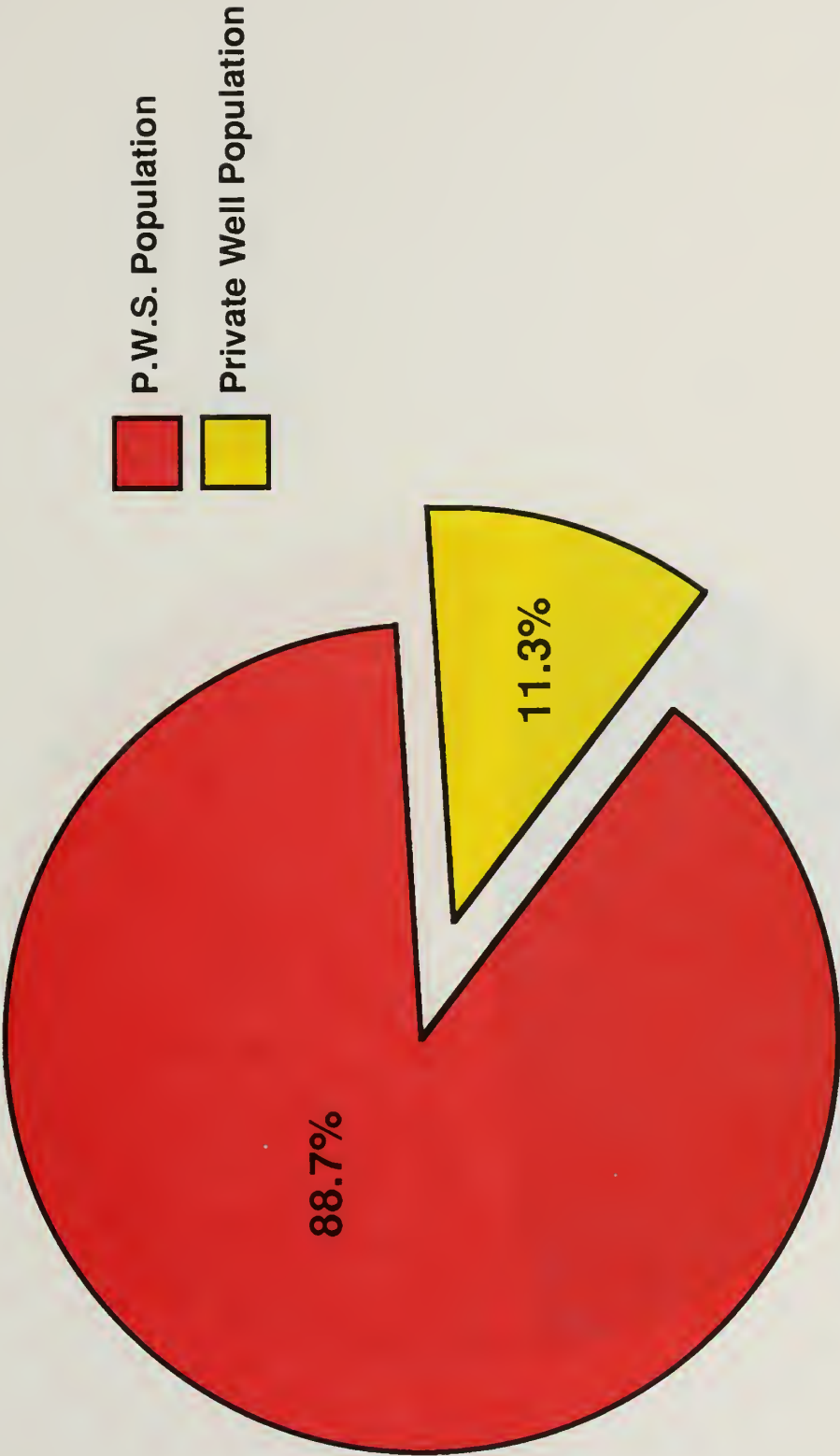
CDC/CPS/DDPA



U.S. Population on Public Water Systems

YEAR 1989

Chart 5



U.S. Population = 248,243,000

CDC/CPS/DDPA

1990

1991

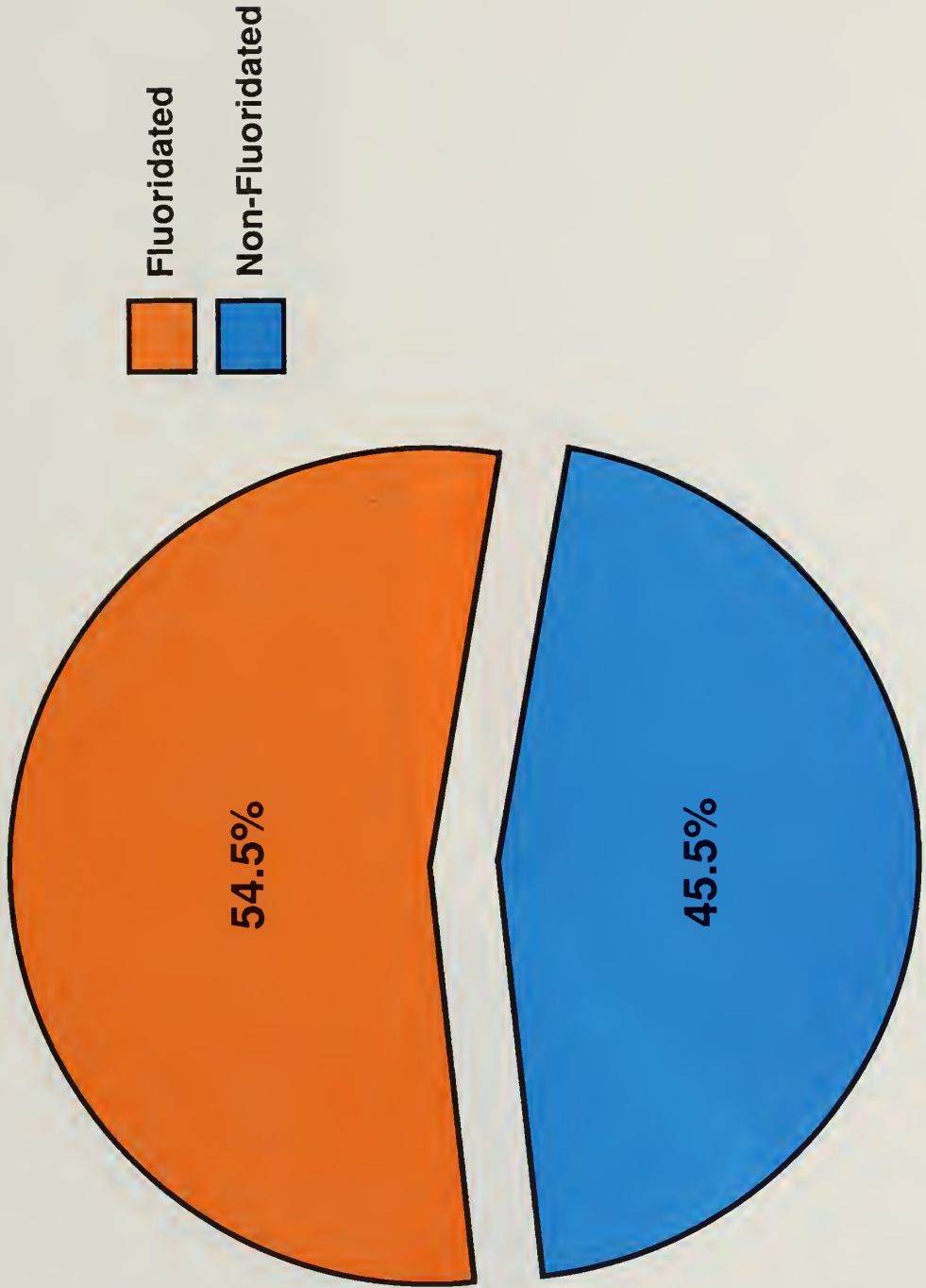


1990

1991

Chart 6

Total U.S. Population
YEAR 1989



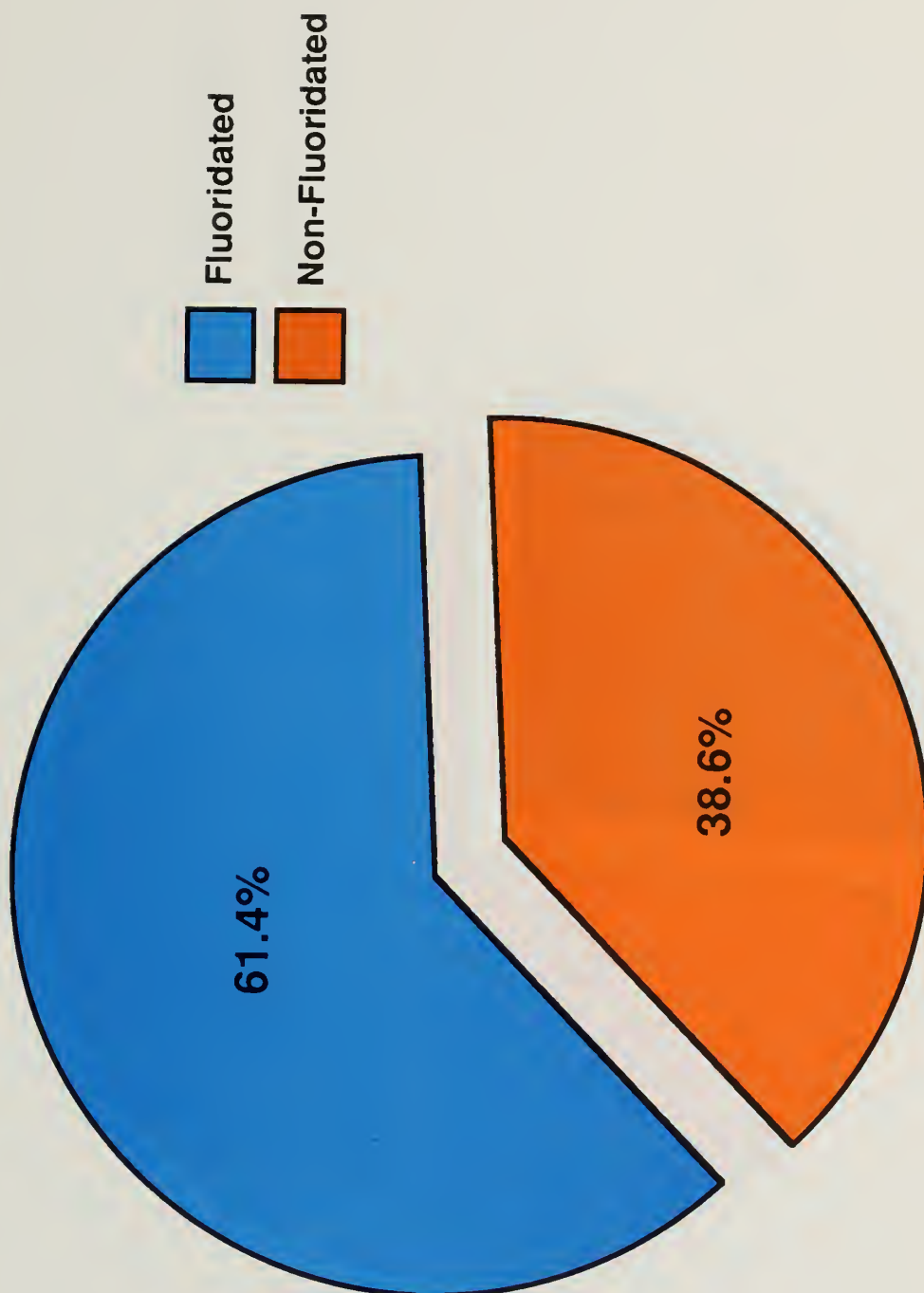
U.S. Population = 248,243,000

CDC/CPS/DDPA



Total Public Water Supply Population YEAR 1989

Chart 7

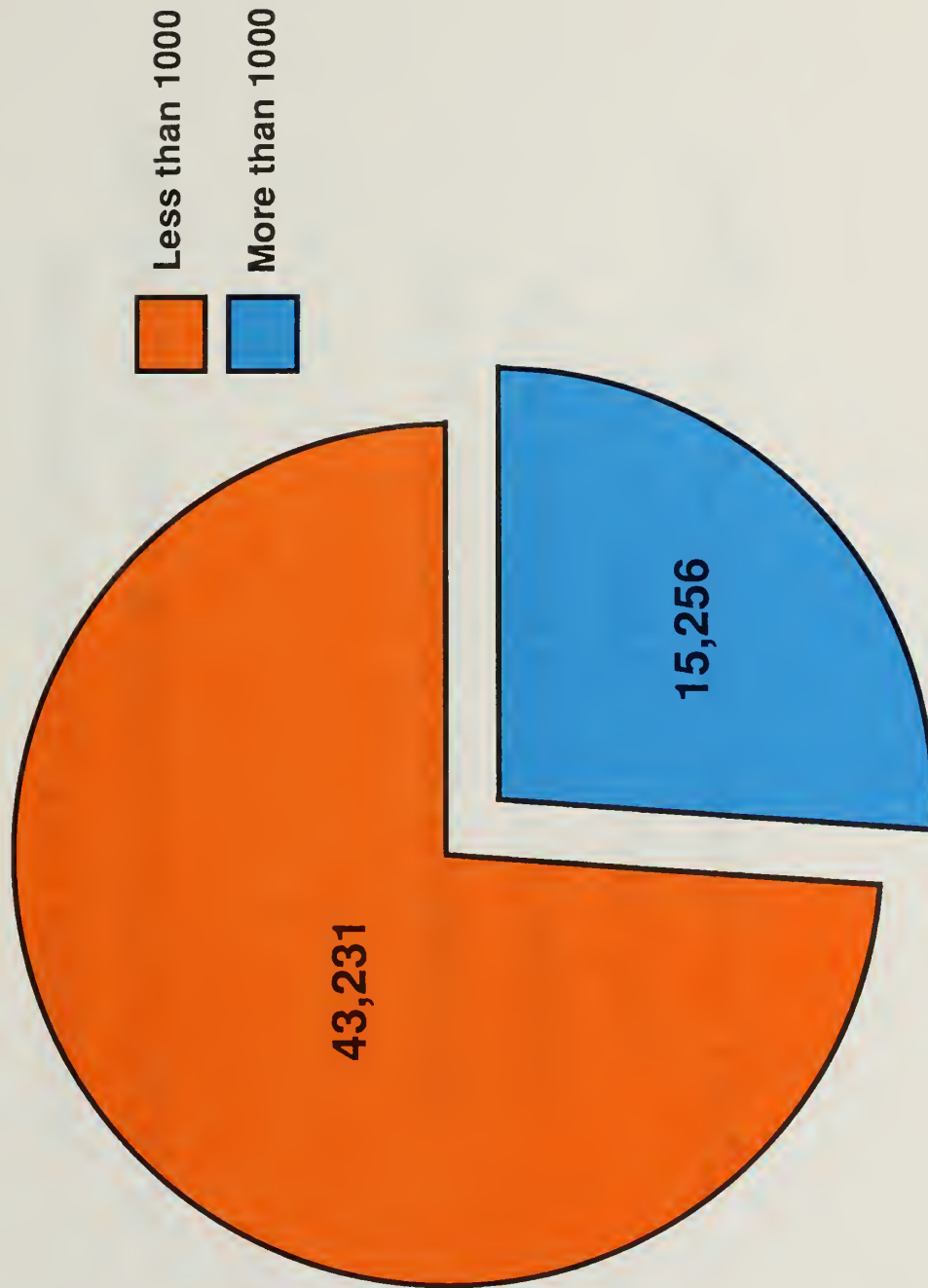


Public Water Supply Population = 220,179,000

CDC/CPS/DDPA

Number of Public Water Systems EPA DATA 1989

Chart 8



Total P.W. Systems = 58,487

CDC/CPS/DDPA

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4

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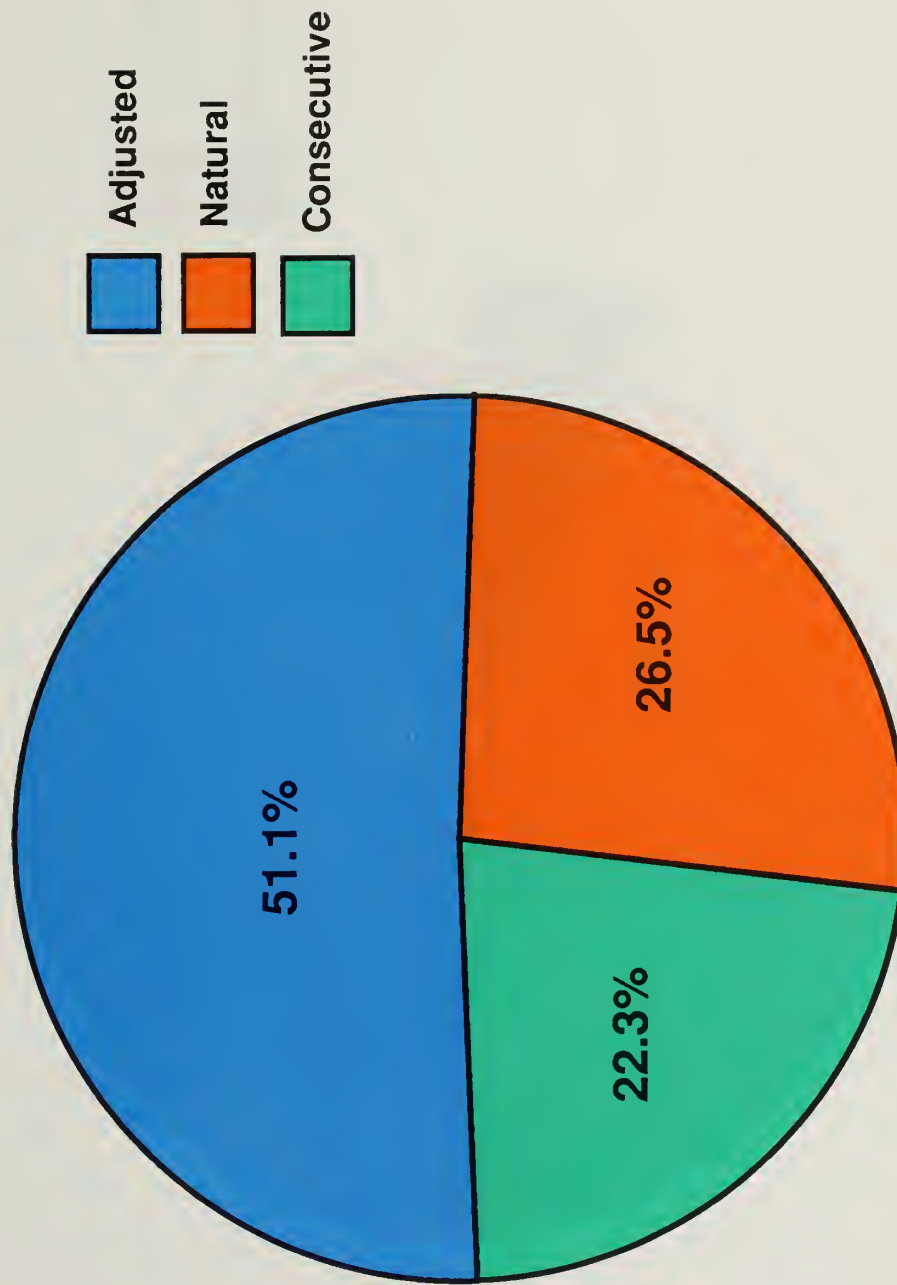
**NUMBER OF FLUORIDATED P.W.S.
FLUORIDATION CENSUS 1989 - SUMMARY**

FLUORIDATING SYSTEMS	6,584
CONSECUTIVE SYSTEMS	2,875
NATURAL SYSTEMS	3,414
TOTAL FLUORIDATED SYSTEMS	12,874

1. The first part of the paper discusses the
 importance of the study and the objectives of the research.
 2. The second part of the paper discusses the
 methodology used in the study and the results of the research.
 3. The third part of the paper discusses the
 conclusions of the study and the implications of the research.
 4. The fourth part of the paper discusses the
 limitations of the study and the suggestions for future research.
 5. The fifth part of the paper discusses the
 significance of the study and the contribution of the research.

Type of P.W.S. Fluoridating YEAR 1989

Chart 10



Fluoridating Systems = 12,874

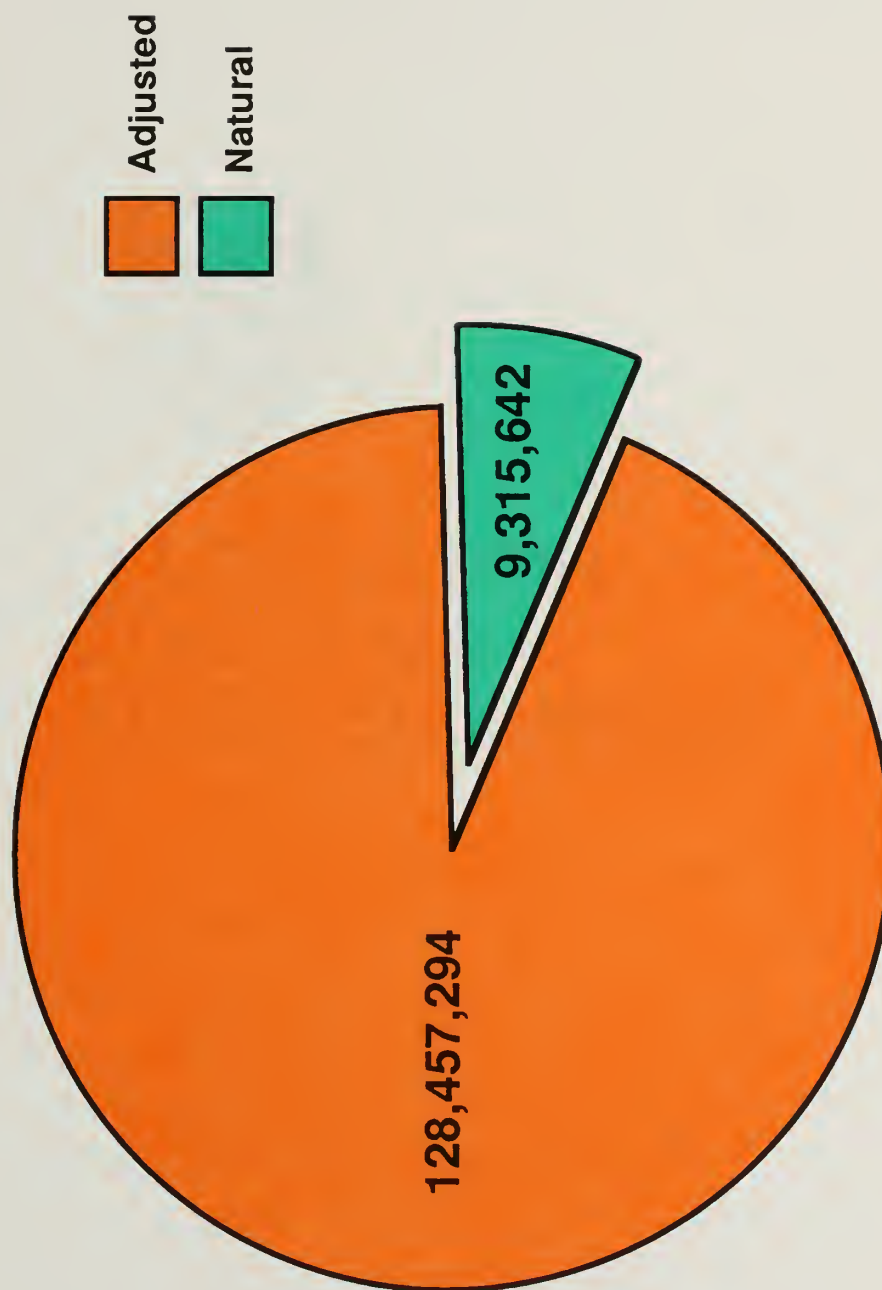
CDC/CPS/DDPA



Fluoridation Adjusted and Natural

Fluoridation Census 1989 – Summary

Chart 11



Fluoridated Population = 135,179,757

CDC/CPS/DDPA

THE UNIVERSITY OF CHICAGO

11





FLUORIDATION STATISTICS STATE SUMMARIES



STATE SUMMARY DATA AS OF 12/31/89

ALABAMA

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	56	30,905	261	121,000
1,001-5,000	114	275,989	265	648,000
5,001-10,000	52	382,539	71	526,000
10,001-50,000	49	939,402	53	995,000
50,001-100,000	5	352,470	0	352,000
>100,000	4	1,130,000	4	1,125,000
TOTAL	280	3,111,359	659	3,768,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	105	2,454,172	78.9
CONSECUTIVE	154	598,933	19.2
NATURAL	21	58,254	1.8
TOTAL	280	3,111,359	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	0	0	0
INDIAN SYSTEMS	0	0	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	4	31,763	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	0	0
SODIUM SILICOFUORIDE	8	53,852
HYDROFLUOSILICIC ACID	241	2,984,903

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STATE SUMMARY DATA AS OF 12/31/89

ALASKA

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	177	43,323	469	85,000
1,001-5,000	11	29,193	24	58,000
5,001-10,000	6	45,805	8	58,000
10,001-50,000	2	43,000	2	43,000
50,001-100,000	0	0	0	0
>100,000	0	160,000	8	113,000
TOTAL	197	321,321	504	363,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	197	321,321	100.0
CONSECUTIVE	0	0	0
NATURAL	0	0	0
TOTAL	197	321,321	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	0	0	0
INDIAN SYSTEMS	140	50,428	0	0
INDIAN SCHOOLS	5	484	0	0
MILITARY SYSTEMS	9	35,543	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	125	257,639
SODIUM SILICOFLUORIDE	0	0
HYDROFLUOSILICIC ACID	0	0

STATE SUMMARY DATA AS OF 12/31/89

ARIZONA

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	112	34,750	624	460,000
1,001-5,000	36	85,237	95	231,000
5,001-10,000	13	91,845	22	468,000
10,001-50,000	11	162,917	24	468,000
50,001-100,000	0	0	0	203,000
>100,000	2	243,000	0	1,875,000
TOTAL	174	617,749	773	3,092,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	71	212,586	34.4
CONSECUTIVE	0	0	0.0
NATURAL	103	405,163	65.6
TOTAL	174	617,749	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	0	0	0
INDIAN SYSTEMS	67	60,816	15	6,070
INDIAN SCHOOLS	1	170	3	660
MILITARY SYSTEMS	0	0	5	19,200

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	61	56,386
SODIUM SILICOFUORIDE	1	135,000
HYDROFLUOSILICIC ACID	1	12,000

1871-1872

1871-1872	
Jan 1	100.00
Feb 1	100.00
Mar 1	100.00
Apr 1	100.00
May 1	100.00
Jun 1	100.00
Jul 1	100.00
Aug 1	100.00
Sep 1	100.00
Oct 1	100.00
Nov 1	100.00
Dec 1	100.00
Total	1200.00

1872-1873	
Jan 1	100.00
Feb 1	100.00
Mar 1	100.00
Apr 1	100.00
May 1	100.00
Jun 1	100.00
Jul 1	100.00
Aug 1	100.00
Sep 1	100.00
Oct 1	100.00
Nov 1	100.00
Dec 1	100.00
Total	1200.00

1873-1874	
Jan 1	100.00
Feb 1	100.00
Mar 1	100.00
Apr 1	100.00
May 1	100.00
Jun 1	100.00
Jul 1	100.00
Aug 1	100.00
Sep 1	100.00
Oct 1	100.00
Nov 1	100.00
Dec 1	100.00
Total	1200.00

1874-1875	
Jan 1	100.00
Feb 1	100.00
Mar 1	100.00
Apr 1	100.00
May 1	100.00
Jun 1	100.00
Jul 1	100.00
Aug 1	100.00
Sep 1	100.00
Oct 1	100.00
Nov 1	100.00
Dec 1	100.00
Total	1200.00

STATE SUMMARY DATA AS OF 12/31/89

ARKANSAS

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	59	31,555	411	179,000
1,001-5,000	71	170,019	240	558,000
5,001-10,000	24	178,335	37	266,000
10,001-50,000	20	411,550	26	526,000
50,001-100,000	1	64,000	3	240,000
>100,000	2	324,272	1	195,000
TOTAL	177	1,179,731	718	1,963,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	67	874,255	74.1
CONSECUTIVE	97	292,951	24.8
NATURAL	13	12,555	1.1
TOTAL	177	1,179,731	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	2	3	3	0
INDIAN SYSTEMS	0	0	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	2	14,170	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	6	7,514
SODIUM SILICOFUORIDE	89	481,729
HYDROFLUOSILICIC ACID	69	677,248

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The seventy-eighth part of the history of the	
The seventy-ninth part of the history of the	
The eightieth part of the history of the	
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The eighty-second part of the history of the	
The eighty-third part of the history of the	
The eighty-fourth part of the history of the	
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The ninety-eighth part of the history of the	
The ninety-ninth part of the history of the	
The hundredth part of the history of the	

STATE SUMMARY DATA AS OF 12/31/89

CALIFORNIA

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	23	5,027	2,736	510,000
1,001-5,000	9	18,761	415	1,025,000
5,001-10,000	2	14,000	149	1,059,000
10,001-50,000	26	708,756	248	6,198,000
50,001-100,000	7	487,816	70	4,890,000
>100,000	8	3,033,700	42	12,746,000
TOTAL	75	4,268,060	3,660	26,428,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	63	3,842,017	90.0
CONSECUTIVE	11	425,943	10.0
NATURAL	1	100	0.0
TOTAL	75	4,268,060	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	0	0	0
INDIAN SYSTEMS	21	6,053	1	100
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	0	0	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	19	6,598
SODIUM SILICOFUORIDE	0	0
HYDROFLUOSILICIC ACID	13	1,166,919

STATE SUMMARY DATA AS OF 12/31/89

COLORADO

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	285	71,079	557	133,000
1,001-5,000	100	228,089	117	258,000
5,001-10,000	22	163,718	29	228,000
10,001-50,000	31	678,422	24	559,000
50,001-100,000	5	348,000	6	463,000
>100,000	5	1,472,404	4	1,630,000
TOTAL	448	2,961,682	737	3,270,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	57	1,809,959	61.1
CONSECUTIVE	95	360,841	12.2
NATURAL	296	790,882	26.7
TOTAL	448	2,961,682	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	0	0	0
INDIAN SYSTEMS	1	1,400	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	0	0	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	27	83,260
SODIUM SILICOFLUORIDE	115	1,983,240
HYDROFLUOSILICIC ACID	3	82,500

STATE SUMMARY DATA AS OF 12/31/89

CONNECTICUT

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	3	1,030	546	84,000
1,001-5,000	3	6,428	39	95,000
5,001-10,000	1	6,000	12	92,000
10,001-50,000	20	592,504	28	696,000
50,001-100,000	7	429,549	5	281,000
>100,000	5	1,326,798	0	1,479,000
TOTAL	40	2,362,309	636	2,727,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	35	2,358,779	99.9
CONSECUTIVE	1	2,500	0.1
NATURAL	4	1,030	0.0
TOTAL	40	2,362,309	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	0	0	0
INDIAN SYSTEMS	0	0	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	0	0	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	7	133,740
SODIUM SILICOFUORIDE	5	559,500
HYDROFLUOSILICIC ACID	24	1,668,039

STATE SUMMARY DATA AS OF 12/31/89

DELAWARE

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	3	1,065	195	44,000
1,001-5,000	0	11,206	30	70,000
5,001-10,000	0	11,206	6	70,000
10,001-50,000	1	32,800	0	98,000
50,001-100,000	1	93,000	1	93,000
>100,000	0	290,000	2	280,000
TOTAL	14	439,871	237	625,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	9	432,700	98.4
CONSECUTIVE	0	0	0.0
NATURAL	5	7,171	1.6
TOTAL	14	439,871	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	0	0	0
INDIAN SYSTEMS	0	0	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	2	6,400	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	5	43,400
SODIUM SILICOFLUORIDE	1	140,000
HYDROFLUOSILICIC ACID	0	0

STATE SUMMARY DATA AS OF 12/31/89

DISTRICT OF COLUMBIA

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	0	0	0	0
1,001-5,000	0	0	2	0
5,001-10,000	0	0	0	0
10,001-50,000	0	0	0	0
50,001-100,000	0	0	0	0
>100,000	2	604,000	2	604,000
TOTAL	2	604,000	2	604,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	1	884,000	100.0
CONSECUTIVE	0	0	0.0
NATURAL	0	0	0.0
TOTAL	1	884,000	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	0	0	0
INDIAN SYSTEMS	0	0	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	0	0	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	0	0
SODIUM SILICOFLUORIDE	0	0
HYDROFLUOSILICIC ACID	1	884,000

STATE SUMMARY DATA AS OF 12/31/89

FLORIDA

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	8	1,752	1,377	329,000
1,001-5,000	29	93,262	293	682,000
5,001-10,000	29	174,109	81	583,000
10,001-50,000	43	1,088,386	132	2,994,000
50,001-100,000	13	849,164	26	1,858,000
>100,000	11	4,046,699	18	4,522,000
TOTAL	128	6,253,699	1,927	10,966,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	98	5,381,616	85.9
CONSECUTIVE	3	0	0.0
NATURAL	27	881,756	14.1
TOTAL	128	6,253,372	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	0	0	0
INDIAN SYSTEMS	2	0	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	12	109,127	1	1,072

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	5	9,412
SODIUM SILICOFUORIDE	10	2,382,120
HYDROFLUOSILICIC ACID	66	2,709,456

STATE SUMMARY DATA AS OF 12/31/89

GEORGIA

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	38	20,373	1,289	261,000
1,001-5,000	127	349,023	204	507,000
5,001-10,000	54	383,386	54	379,000
10,001-50,000	54	1,111,540	55	1,183,000
50,001-100,000	9	611,400	9	553,000
>100,000	9	2,235,500	9	2,616,000
TOTAL	288	4,711,222	1,619	5,499,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	238	3,970,851	84.3
CONSECUTIVE	45	724,106	15.4
NATURAL	5	16,265	0.3
TOTAL	288	4,711,222	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	9	9	9	0
INDIAN SYSTEMS	0	0	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	6	89,900	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	120	995,111
SODIUM SILICOFLUORIDE	38	863,150
HYDROFLUOSILICIC ACID	106	2,335,346

STATE OF NEW YORK

SCHEDULE OF ASSETS AND LIABILITIES				
ASSETS				
Cash				
Accounts receivable				
Inventory				
Property, plant and equipment				
Intangible assets				
Other assets				
LIABILITIES				
Accounts payable				
Long-term debt				
Other liabilities				

SCHEDULE OF REVENUES AND EXPENDITURES				
REVENUES				
Operating revenues				
Non-operating revenues				
Other revenues				
EXPENDITURES				
Operating expenditures				
Non-operating expenditures				
Other expenditures				

SCHEDULE OF CAPITAL BUDGETING				
CAPITAL BUDGETING				
Investment in property, plant and equipment				
Investment in intangible assets				
Investment in other assets				
Disposal of property, plant and equipment				
Disposal of intangible assets				
Disposal of other assets				

SCHEDULE OF FINANCIAL STATEMENTS				
FINANCIAL STATEMENTS				
Balance sheet				
Income statement				
Statement of cash flows				
Statement of equity				

STATE SUMMARY DATA AS OF 12/31/89

HAWAII

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	1	970	72	24,924
1,001-5,000	1	13,200	37	87,234
5,001-10,000	1	5,700	7	48,890
10,001-50,000	3	58,800	11	217,606
50,001-100,000	1	63,900	2	141,875
>100,000	0	1	1	592,243
TOTAL	10	142,570	130	1,112,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	7	121,470	85.2
CONSECUTIVE	3	21,100	14.8
NATURAL	0	0	0.0
TOTAL	10	142,570	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	1	0	0	0
INDIAN SYSTEMS	0	0	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	10	142,570	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	10	142,570
SODIUM SILICOFLUORIDE	0	0
HYDROFLUOSILICIC ACID	0	0

THE HISTORY OF THE
CITY OF BOSTON

1790

The City of Boston		The County of Suffolk	
Ward	Population	Ward	Population
1	1000	1	1000
2	1000	2	1000
3	1000	3	1000
4	1000	4	1000
5	1000	5	1000
6	1000	6	1000
7	1000	7	1000
8	1000	8	1000
9	1000	9	1000
10	1000	10	1000
11	1000	11	1000
12	1000	12	1000
13	1000	13	1000
14	1000	14	1000
15	1000	15	1000
16	1000	16	1000
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18	1000	18	1000
19	1000	19	1000
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21	1000	21	1000
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23	1000	23	1000
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25	1000	25	1000
26	1000	26	1000
27	1000	27	1000
28	1000	28	1000
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31	1000	31	1000
32	1000	32	1000
33	1000	33	1000
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35	1000	35	1000
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40	1000	40	1000
41	1000	41	1000
42	1000	42	1000
43	1000	43	1000
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46	1000	46	1000
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87	1000	87	1000
88	1000	88	1000
89	1000	89	1000
90	1000	90	1000
91	1000	91	1000
92	1000	92	1000
93	1000	93	1000
94	1000	94	1000
95	1000	95	1000
96	1000	96	1000
97	1000	97	1000
98	1000	98	1000
99	1000	99	1000
100	1000	100	1000

STATE SUMMARY DATA AS OF 12/31/89

IDAHO

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	27	8,400	729	123,000
1,001-5,000	17	42,533	62	158,000
5,001-10,000	3	19,016	11	80,000
10,001-50,000	0	125,078	11	235,000
50,001-100,000	1	0	0	0
>100,000	1	105,000	0	105,000
TOTAL	54	300,027	814	700,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	12	53,937	18.0
CONSECUTIVE	2	750	0.2
NATURAL	40	245,340	81.8
TOTAL	54	300,027	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	1	0	0	0
INDIAN SYSTEMS	4	1,295	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	1	6,000	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	6	5,845
SODIUM SILICOFLUORIDE	6	48,842
HYDROFLUOSILICIC ACID	0	0

STATE SUMMARY DATA AS OF 12/31/89

ILLINOIS

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	764	269,726	1,134	395,000
1,001-5,000	475	867,665	494	1,096,000
5,001-10,000	111	659,656	115	822,000
10,001-50,000	172	3,062,453	165	3,475,000
50,001-100,000	19	1,057,214	16	1,034,000
>100,000	7	4,688,285	6	3,782,000
TOTAL	1,548	10,605,000	1,930	10,605,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	948	7,440,835	58.0
CONSECUTIVE	401	4,626,518	36.0
NATURAL	199	772,326	6.0
TOTAL	1,548	12,839,679	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	0	0	0
INDIAN SYSTEMS	0	0	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	5	61,795	1	139

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	261	449,182
SODIUM SILICOFLUORIDE	86	661,298
HYDROFLUOSILICIC ACID	991	10,947,536

Volume 27
Number 19

ORIGINAL ARTICLES			
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
61	62	63	64
65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100

STATE SUMMARY DATA AS OF 12/31/89

INDIANA

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	220	121,605	543	173,000
1,001-5,000	196	472,744	241	535,000
5,001-10,000	54	384,737	56	383,000
10,001-50,000	46	1,005,637	48	997,000
50,001-100,000	5	337,695	5	349,000
>100,000	6	1,437,549	5	1,326,000
TOTAL	527	3,759,967	898	3,761,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	330	3,287,718	87.4
CONSECUTIVE	105	209,629	5.6
NATURAL	92	262,620	7.0
TOTAL	527	3,759,967	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	85	35,899	0	0
INDIAN SYSTEMS	0	0	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	1	1,500	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	278	702,375
SODIUM SILICOFLUORIDE	44	1,278,753
HYDROFLUOSILICIC ACID	110	1,513,878

THE HISTORY OF THE UNITED STATES

The first part of the history of the United States is the period from the discovery of the continent by Christopher Columbus in 1492 to the establishment of the first permanent settlements. This period is characterized by the exploration of the continent by Spanish, French, and English explorers, and the establishment of the first permanent settlements by the English in 1607.

The second part of the history of the United States is the period from the establishment of the first permanent settlements to the American Revolution in 1776. This period is characterized by the growth of the colonies, the struggle for independence, and the establishment of the United States as a new nation.

The third part of the history of the United States is the period from the American Revolution to the Civil War in 1861. This period is characterized by the growth of the United States, the struggle for slavery, and the establishment of the United States as a new nation.

The fourth part of the history of the United States is the period from the Civil War to the present. This period is characterized by the growth of the United States, the struggle for civil rights, and the establishment of the United States as a new nation.

STATE SUMMARY DATA AS OF 12/31/89

IOWA

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	323	143,524	1,003	294,000
1,001-5,000	182	394,345	242	500,000
5,001-10,000	37	268,294	41	299,000
10,001-50,000	21	471,420	22	504,000
50,001-100,000	5	328,335	5	325,000
>100,000	3	431,884	3	440,000
TOTAL	571	2,037,802	1,316	2,361,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	259	1,627,189	79.9
CONSECUTIVE	92	100,683	4.9
NATURAL	220	309,930	15.2
TOTAL	571	2,037,802	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	0	0	0
INDIAN SYSTEMS	1	286	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	0	0	1	250

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	10	18,747
SODIUM SILICOFLUORIDE	14	354,458
HYDROFLUOSILICIC ACID	318	1,350,754

STATE SUMMARY DATA AS OF 12/31/89

KANSAS

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	101	40,195	624	215,000
1,001-5,000	55	123,194	221	469,000
5,001-10,000	0	51,847	19	830,000
10,001-50,000	21	419,105	38	816,000
50,001-100,000	1	54,013	0	0
>100,000	2	304,021	4	830,000
TOTAL	188	992,375	906	2,469,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	48	802,387	80.9
CONSECUTIVE	58	36,381	3.7
NATURAL	82	153,607	15.5
TOTAL	188	992,375	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	0	0	0
INDIAN SYSTEMS	0	0	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	3	33,000	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	4	30,273
SODIUM SILICOFLUORIDE	64	615,321
HYDROFLUOSILICIC ACID	30	389,565

STATE SUMMARY DATA AS OF 12/31/89

KENTUCKY

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	95	37,070	202	67,000
1,001-5,000	111	289,360	231	559,000
5,001-10,000	39	279,399	69	483,000
10,001-50,000	39	776,380	50	921,000
50,001-100,000	2	121,450	3	174,000
>100,000	3	1,102,500	3	1,103,000
TOTAL	293	2,606,159	558	3,307,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	278	2,573,841	98.8
CONSECUTIVE	15	32,318	1.2
NATURAL	0	0	0.0
TOTAL	293	2,606,159	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	78	24,933	0	0
INDIAN SYSTEMS	0	0	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	1	23,400	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	143	222,097
SODIUM SILICOFLUORIDE	51	649,679
HYDROFLUOSILICIC ACID	91	1,704,706

THE HISTORY OF THE UNITED STATES

BY J. B. HARRIS

CHAPTER I	
THE DISCOVERY OF AMERICA	
THE FIRST SETTLEMENTS	
THE STRUGGLE FOR INDEPENDENCE	
THE CONSTITUTION	
THE WESTERN EXPLORATIONS	
THE INDUSTRIAL REVOLUTION	
THE CIVIL WAR	
THE RECONSTRUCTION	
THE PRESENT DAY	

STATE SUMMARY DATA AS OF 12/31/89

LOUISIANA

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	67	26,477	1,043	258,000
1,001-5,000	41	93,965	275	600,000
5,001-10,000	14	101,131	43	303,000
10,001-50,000	14	264,906	45	822,000
50,001-100,000	7	461,860	8	494,000
>100,000	3	1,030,364	8	1,613,000
TOTAL	146	1,978,703	1,420	4,091,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	49	1,733,824	87.6
CONSECUTIVE	3	13,200	0.7
NATURAL	94	231,679	11.7
TOTAL	146	1,978,703	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	3	0	0	0
INDIAN SYSTEMS	0	0	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	3	22,100	1	1,700

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	0	0
SODIUM SILICOFLUORIDE	0	0
HYDROFLUOSILICIC ACID	52	1,747,024

STATE SUMMARY DATA AS OF 12/31/89

MAINE

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	5	2,882	312	53,000
1,001-5,000	36	87,128	71	162,000
5,001-10,000	9	65,580	15	109,000
10,001-50,000	12	282,451	15	337,000
50,001-100,000	0	0	0	0
>100,000	0	0	0	158,000
TOTAL	62	438,041	414	819,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	60	415,765	94.9
CONSECUTIVE	2	22,276	5.1
NATURAL	0	0	0.0
TOTAL	62	438,041	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	0	0	0
INDIAN SYSTEMS	2	1,225	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	2	10,200	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	25	81,940
SODIUM SILICOFLUORIDE	2	72,500
HYDROFLUOSILICIC ACID	35	283,601

STATE SUMMARY DATA AS OF 12/31/89

MARYLAND

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	82	14,018	403	96,000
1,001-5,000	41	123,601	104	287,000
5,001-10,000	0	34,800	12	97,000
10,001-50,000	21	470,870	21	512,000
50,001-100,000	3	195,000	2	130,000
>100,000	3	2,600,000	4	2,697,000
TOTAL	154	3,438,289	546	3,818,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	87	1,289,676	35.9
CONSECUTIVE	13	2,100,000	61.1
NATURAL	54	48,613	1.4
TOTAL	154	3,438,289	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	0	0	0
INDIAN SYSTEMS	0	0	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	7	52,003	2	2,027

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	12	38,350
SODIUM SILICOFLUORIDE	7	130,353
HYDROFLUOSILICIC ACID	56	2,065,870

STATE SUMMARY DATA AS OF 12/31/89

MASSACHUSETTS

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	6	1,147	217	40,000
1,001-5,000	6	23,457	83	249,000
5,001-10,000	11	73,319	56	395,000
10,001-50,000	47	1,041,738	124	2,765,000
50,001-100,000	6	448,213	17	1,215,000
>100,000	2	1,674,534	4	1,146,000
TOTAL	76	3,262,426	501	5,810,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	73	3,262,029	100.0
CONSECUTIVE	0	0	0.0
NATURAL	3	397	0.0
TOTAL	76	3,262,426	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	6	4	4	0
INDIAN SYSTEMS	0	0	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	2	8,000	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	46	617,711
SODIUM SILICOFLUORIDE	5	270,980
HYDROFLUOSILICIC ACID	22	2,373,338

STATE SUMMARY DATA AS OF 12/31/89

MICHIGAN

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	120	51,368	1,022	267,000
1,001-5,000	167	437,441	295	676,000
5,001-10,000	61	441,468	75	537,000
10,001-50,000	85	1,945,369	89	2,029,000
50,001-100,000	15	1,102,954	16	1,147,000
>100,000	8	2,208,761	8	2,209,000
TOTAL	456	6,187,361	1,505	6,863,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	133	2,960,305	47.8
CONSECUTIVE	229	3,108,246	50.2
NATURAL	94	118,810	1.9
TOTAL	456	6,187,361	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	0	0	0
INDIAN SYSTEMS	0	0	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	3	19,700	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	10	38,239
SODIUM SILICOFUORIDE	10	609,621
HYDROFLUOSILICIC ACID	290	5,328,349

STATE SUMMARY DATA AS OF 12/31/89

MINNESOTA

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	383	170,554	713	219,000
1,001-5,000	198	448,352	209	473,000
5,001-10,000	38	276,518	32	239,000
10,001-50,000	57	1,249,453	53	1,136,000
50,001-100,000	3	232,548	2	151,000
>100,000	2	702,492	0	1,469,000
TOTAL	681	3,079,917	1,013	3,688,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	635	2,910,362	94.5
CONSECUTIVE	32	165,443	5.4
NATURAL	14	4,112	0.1
TOTAL	681	3,079,917	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	5	1,543	0	0
INDIAN SYSTEMS	0	0	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	0	0	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	32	39,267
SODIUM SILICOFLUORIDE	17	201,461
HYDROFLUOSILICIC ACID	614	2,832,691

THE HISTORY OF THE

REIGN OF

CHARLES THE FIRST

BY

JOHN BURNET

OF

THE UNIVERSITY OF OXFORD

IN TWO VOLUMES

LONDON

Printed by J. Streater, at the Sign of the Gun, in St. Dunstons Church-yard, 1679.

By Authority.

Printed by J. Streater, at the Sign of the Gun, in St. Dunstons Church-yard, 1679.

STATE SUMMARY DATA AS OF 12/31/89

MISSISSIPPI

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	126	49,794	898	368,000
1,001-5,000	126	250,985	393	844,000
5,001-10,000	28	195,553	41	274,000
10,001-50,000	21	463,055	34	681,000
50,001-100,000	1	57,000	0	57,000
>100,000	1	220,027	0	194,000
TOTAL	285	1,236,414	1,379	2,417,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	147	1,091,768	88.3
CONSECUTIVE	69	48,556	3.9
NATURAL	69	96,090	7.8
TOTAL	285	1,236,414	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	1	0	0	0
INDIAN SYSTEMS	3	2,378	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	3	32,497	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	196	746,541
SODIUM SILICOFLUORIDE	11	372,740
HYDROFLUOSILICIC ACID	7	20,665

THE HISTORY OF THE

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STATE SUMMARY DATA AS OF 12/31/89

MISSOURI

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	133	47,734	707	185,000
1,001-5,000	133	315,076	169	347,000
5,001-10,000	27	191,556	22	151,000
10,001-50,000	25	489,590	16	406,000
50,001-100,000	1	64,000	0	0
>100,000	1	2,020,500	3	1,581,000
TOTAL	298	3,128,456	917	2,669,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	152	2,812,024	89.9
CONSECUTIVE	71	169,597	5.4
NATURAL	75	146,835	4.7
TOTAL	298	3,128,456	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	0	0	0
INDIAN SYSTEMS	1	4,080	0	0
INDIAN SCHOOLS	0	0	1	400
MILITARY SYSTEMS	1	22,500	1	4,000

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	125	268,328
SODIUM SILICOFLUORIDE	18	168,618
HYDROFLUOSILICIC ACID	73	2,538,719

STATE SUMMARY DATA AS OF 12/31/89

MONTANA

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	76	20,022	714	101,000
1,001-5,000	14	27,158	48	101,000
5,001-10,000	4	27,905	48	87,000
10,001-50,000	1	22,000	6	150,000
50,001-100,000	1	72,000	2	142,000
>100,000	0	0	0	0
TOTAL	96	169,085	783	580,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	30	64,894	38.4
CONSECUTIVE	3	566	0.3
NATURAL	63	103,625	61.3
TOTAL	96	169,085	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	0	0	0
INDIAN SYSTEMS	19	5,877	3	419
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	1	3,000	2	7,602

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	28	25,196
SODIUM SILICOFLUORIDE	4	40,100
HYDROFLUOSILICIC ACID	0	0

THE HISTORY OF THE CITY OF BOSTON

The first settlement in Boston was made in 1630 by a group of Puritan settlers from England. They came to the city in search of religious freedom and a place to practice their faith. The settlers established a colony on the eastern tip of the island, which was then known as Boston. The city grew rapidly, and by 1639, it had a population of over 1,000 people. The settlers built a fort on the tip of the island, and the city became a center of trade and commerce. The city was known for its strict religious laws and its commitment to education. The first public school in Boston was founded in 1630, and the city was the first to establish a public library in 1630. The city was also the first to establish a public hospital in 1630. The city was known for its strict religious laws and its commitment to education. The first public school in Boston was founded in 1630, and the city was the first to establish a public library in 1630. The city was also the first to establish a public hospital in 1630.

The city of Boston was the first to establish a public school in 1630, and the city was the first to establish a public library in 1630. The city was also the first to establish a public hospital in 1630. The city was known for its strict religious laws and its commitment to education. The first public school in Boston was founded in 1630, and the city was the first to establish a public library in 1630. The city was also the first to establish a public hospital in 1630.

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STATE SUMMARY DATA AS OF 12/31/89

NEBRASKA

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	50	22,067	563	145,000
1,001-5,000	34	60,958	96	173,000
5,001-10,000	9	66,489	17	107,000
10,001-50,000	3	71,959	9	159,000
50,001-100,000	0	0	2	0
>100,000	2	567,637	2	522,000
TOTAL	98	789,110	687	1,106,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	51	750,591	95.1
CONSECUTIVE	4	6,470	0.8
NATURAL	43	32,049	4.1
TOTAL	98	789,110	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	2	2	0
INDIAN SYSTEMS	3	2,930	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	1	8,787	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	2	4,079
SODIUM SILICOFLUORIDE	6	36,706
HYDROFLUOSILICIC ACID	43	704,637

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STATE SUMMARY DATA AS OF 12/31/89

NEVADA

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	21	5,681	267	43,000
1,001-5,000	5	9,510	45	97,000
5,001-10,000	1	8,700	3	26,000
10,001-50,000	0	0	4	70,000
50,001-100,000	0	0	0	50,000
>100,000	0	0	3	824,000
TOTAL	27	23,891	323	1,111,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	11	2,409	10.1
CONSECUTIVE	0	0	0.0
NATURAL	16	21,482	89.9
TOTAL	27	23,891	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	0	3	0
INDIAN SYSTEMS	10	2,384	3	607
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	0	0	1	1,510

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	11	2,409
SODIUM SILICOFLUORIDE	0	0
HYDROFLUOSILICIC ACID	0	0

STATE SUMMARY DATA AS OF 12/31/89

NEW HAMPSHIRE

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	66	2,125	696	82,000
1,001-5,000	1	2,125	48	106,000
5,001-10,000	4	36,000	15	119,000
10,001-50,000	0	107,217	13	256,000
50,001-100,000	0	0	1	65,000
>100,000	0	0	1	105,000
TOTAL	75	147,367	774	734,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	9	135,267	91.8
CONSECUTIVE	2	1,300	0.9
NATURAL	64	10,800	7.3
TOTAL	75	147,367	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	0	0	0
INDIAN SYSTEMS	0	0	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	1	25	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	6	48,625
SODIUM SILICOFLUORIDE	0	0
HYDROFLUOSILICIC ACID	5	87,942



STATE SUMMARY DATA AS OF 12/31/89

NEW JERSEY

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	2	1,650	408	102,000
1,001-5,000	13	32,406	134	339,000
5,001-10,000	6	41,939	62	438,000
10,001-50,000	18	388,524	116	2,368,000
50,001-100,000	1	100,000	11	692,000
>100,000	3	605,528	12	3,796,000
TOTAL	43	1,170,047	743	7,736,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	28	1,056,302	90.3
CONSECUTIVE	0	0	0.0
NATURAL	15	113,745	9.7
TOTAL	43	1,170,047	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	2	0	0	0
INDIAN SYSTEMS	0	0	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	3	35,952	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	6	80,697
SODIUM SILICOFLUORIDE	3	317,600
HYDROFLUOSILICIC ACID	18	645,005

THE HISTORY OF THE

1790

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STATE SUMMARY DATA AS OF 12/31/89

NEW MEXICO

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	107	35,787	563	124,000
1,001-5,000	28	60,458	60	136,000
5,001-10,000	7	57,680	17	130,000
10,001-50,000	13	314,661	17	455,000
50,001-100,000	0	0	2	112,000
>100,000	1	342,000	1	351,000
TOTAL	156	810,586	661	1,306,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	69	562,723	69.4
CONSECUTIVE	1	2,250	0.3
NATURAL	86	245,613	30.3
TOTAL	156	810,586	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	1	0	0	0
INDIAN SYSTEMS	46	51,520	30	8,978
INDIAN SCHOOLS	2	1,410	6	1,045
MILITARY SYSTEMS	0	0	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	65	155,723
SODIUM SILICOFUORIDE	1	10,000
HYDROFLUOSILICIC ACID	4	399,250

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STATE SUMMARY DATA AS OF 12/31/89

NEW YORK

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	374	141,461	2,742	575,000
1,001-5,000	159	410,992	434	1,015,000
5,001-10,000	48	356,326	98	723,000
10,001-50,000	58	1,336,931	119	2,760,000
50,001-100,000	8	510,466	13	854,000
>100,000	10	8,918,005	16	10,686,000
TOTAL	658	11,674,181	3,422	16,612,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	152	9,800,170	83.9
CONSECUTIVE	502	1,872,795	16.0
NATURAL	3	1,216	0.0
TOTAL	657	11,672,181	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	0	0	0
INDIAN SYSTEMS	0	0	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	3	9,600	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	39	156,160
SODIUM SILICOFLUORIDE	64	7,684,126
HYDROFLUOSILICIC ACID	538	3,644,761

STATE SUMMARY DATA AS OF 12/31/89

NORTH CAROLINA

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	124	50,633	2,542	457,000
1,001-5,000	61	171,476	279	678,000
5,001-10,000	28	205,496	67	486,000
10,001-50,000	41	913,231	59	1,176,000
50,001-100,000	5	370,000	6	603,000
>100,000	7	1,618,900	6	1,232,000
TOTAL	266	3,329,736	2,962	4,634,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	237	3,248,435	97.6
CONSECUTIVE	0	0	0.0
NATURAL	29	81,301	2.4
TOTAL	266	3,329,736	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	103	41,658	2	585
INDIAN SYSTEMS	5	1,761	1	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	10	120,200	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	126	343,607
SODIUM SILICOFLUORIDE	13	1,378,260
HYDROFLUOSILICIC ACID	58	1,156,172

THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

REPORT OF THE PHYSICS DEPARTMENT

FOR THE YEAR 1955-1956

CHICAGO, ILLINOIS

1956

CHICAGO, ILLINOIS

1956

CHICAGO, ILLINOIS

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CHICAGO, ILLINOIS

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1956

STATE SUMMARY DATA AS OF 12/31/89

NORTH DAKOTA

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	139	44,582	284	75,000
1,001-5,000	58	104,414	58	103,000
5,001-10,000	6	43,088	7	52,000
10,001-50,000	10	221,709	8	162,000
50,001-100,000	0	61,281	7	121,000
>100,000	0	0	7	0
TOTAL	211	475,074	359	513,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	106	407,111	85.7
CONSECUTIVE	28	41,393	8.7
NATURAL	77	26,570	5.6
TOTAL	211	475,074	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	0	0	0
INDIAN SYSTEMS	16	10,189	1	465
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	2	29,518	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	26	35,280
SODIUM SILICOFLOURIDE	15	256,628
HYDROFLUOSILICIC ACID	92	156,131

THE HISTORY OF THE

REIGN OF

CHARLES THE FIRST

BY

JOHN BURNET

IN TWO VOLUMES

STATE SUMMARY DATA AS OF 12/31/89

OHIO

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	333	116,648	1,040	296,000
1,001-5,000	175	437,857	335	770,000
5,001-10,000	74	544,644	82	603,000
10,001-50,000	95	1,970,872	111	2,213,000
50,001-100,000	16	1,081,210	17	1,141,000
>100,000	12	4,139,844	10	4,293,000
TOTAL	705	8,291,075	1,595	9,314,000

FLUORIDATED SYSTEM CLASSIFICATION

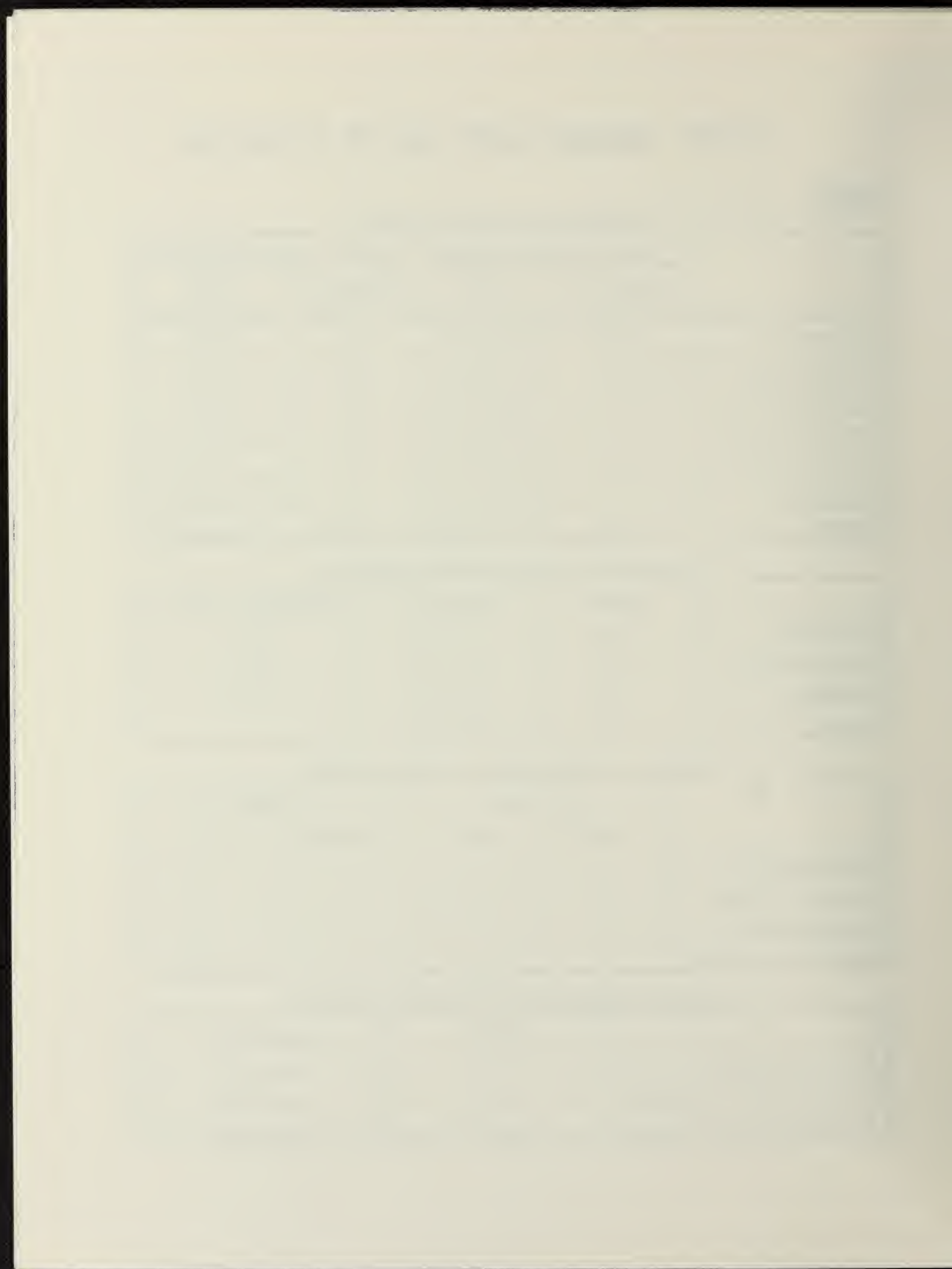
	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	229	7,050,752	85.0
CONSECUTIVE	168	997,504	12.0
NATURAL	308	242,819	2.9
TOTAL	705	8,291,075	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	0	0	0
INDIAN SYSTEMS	0	0	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	0	0	1	1,500

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	28	56,933
SODIUM SILICOFLUORIDE	85	3,148,770
HYDROFLUOSILICIC ACID	277	4,811,100



STATE SUMMARY DATA AS OF 12/31/89

OKLAHOMA

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	98	38,699	975	266,000
1,001-5,000	82	197,284	282	594,000
5,001-10,000	21	156,009	36	259,000
10,001-50,000	22	582,440	34	847,000
50,001-100,000	1	60,000	2	115,000
>100,000	4	588,800	0	641,000
TOTAL	228	1,617,232	1,333	2,722,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	78	1,362,484	84.2
CONSECUTIVE	95	145,586	9.0
NATURAL	55	109,152	6.7
TOTAL	228	1,617,232	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	0	0	0
INDIAN SYSTEMS	2	540	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	5	16,224	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	21	220,232
SODIUM SILICOFLUORIDE	119	1,099,206
HYDROFLUOSILICIC ACID	34	188,642

NAME	RESIDENCE	DATE
J. H. B. Smith	123 Main St, New York	1901
W. C. Jones	456 Elm St, Boston	1902
A. M. Brown	789 Oak St, Chicago	1903
T. R. White	101 Pine St, Philadelphia	1904
L. K. Green	234 Cedar St, St. Louis	1905
H. S. Black	567 Birch St, San Francisco	1906
M. P. Gray	890 Spruce St, Portland	1907
J. A. Hall	123 Maple St, Seattle	1908
R. D. King	456 Willow St, Denver	1909
S. L. Scott	789 Ash St, Salt Lake City	1910
C. E. Walker	101 Hickory St, Kansas City	1911
F. G. Young	234 Walnut St, Omaha	1912
B. N. Adams	567 Chestnut St, Minneapolis	1913
D. H. Baker	890 Sycamore St, St. Paul	1914
K. J. Miller	123 Poplar St, Des Moines	1915
N. W. Wilson	456 Magnolia St, Iowa City	1916
P. R. Moore	789 Dogwood St, Ames	1917
Q. S. Taylor	101 Redwood St, Davenport	1918
U. V. Evans	234 Cypress St, Rockford	1919
V. W. Reed	567 Juniper St, Peoria	1920
W. X. Cook	890 Fir St, Bloomington	1921
X. Y. Bell	123 Hemlock St, Normal	1922
Y. Z. Clark	456 Spruce St, Moline	1923
Z. A. Lewis	789 Fir St, Macomb	1924
A. B. Hall	101 Cedar St, Quincy	1925

STATE SUMMARY DATA AS OF 12/31/89

OREGON

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	21	9,635	833	159,000
1,001-5,000	17	45,660	128	294,000
5,001-10,000	8	60,825	28	209,000
10,001-50,000	9	184,800	39	805,000
50,001-100,000	1	90,000	1	68,000
>100,000	1	116,000	3	653,000
TOTAL	57	506,920	1,032	2,188,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	28	446,415	88.1
CONSECUTIVE	9	18,805	3.7
NATURAL	20	41,700	8.2
TOTAL	57	506,920	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	0	0	0
INDIAN SYSTEMS	5	3,480	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	0	0	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	9	16,330
SODIUM SILICOFUORIDE	26	426,090
HYDROFLUOSILICIC ACID	2	22,800

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Correspondence	1
Obituary	1
Announcements	1

Original Articles	1
Editorial	1
Book Reviews	1
Correspondence	1
Obituary	1
Announcements	1

Original Articles	1
Editorial	1
Book Reviews	1
Correspondence	1
Obituary	1
Announcements	1

STATE SUMMARY DATA AS OF 12/31/89

PENNSYLVANIA

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	13	8,161	1,821	429,000
1,001-5,000	36	115,336	362	866,000
5,001-10,000	30	226,777	93	690,000
10,001-50,000	30	926,016	120	2,570,000
50,001-100,000	0	657,999	16	1,096,000
>100,000	0	3,218,767	16	4,504,000
TOTAL	135	5,153,056	2,428	10,154,000

FLUORIDATED SYSTEM CLASSIFICATION

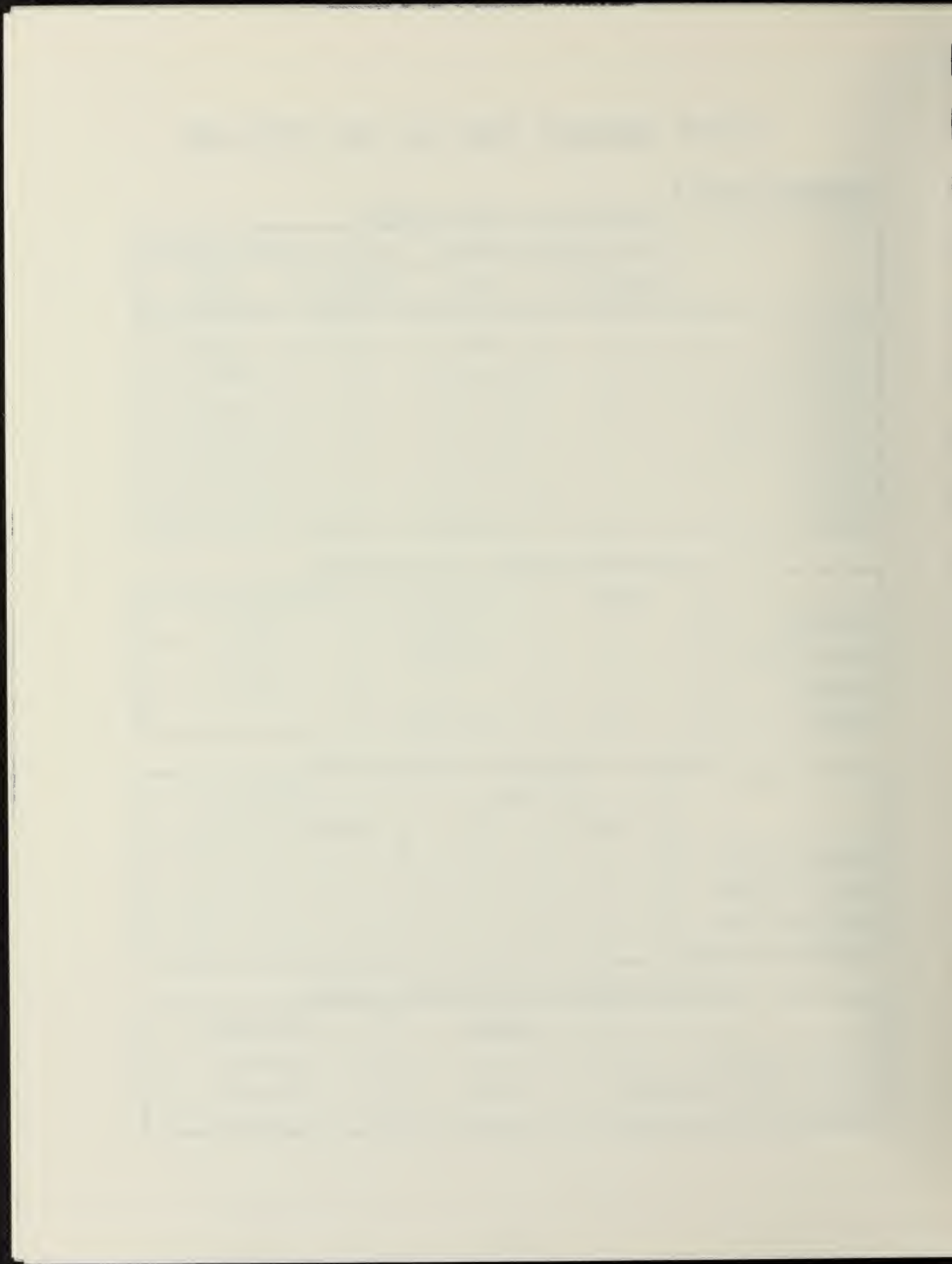
	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	94	4,953,894	96.1
CONSECUTIVE	41	199,162	3.9
NATURAL	0	0	0.0
TOTAL	135	5,153,056	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	0	0	0
INDIAN SYSTEMS	0	0	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	0	0	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	28	245,742
SODIUM SILICOFLUORIDE	28	513,269
HYDROFLUOSILICIC ACID	71	3,746,844



STATE SUMMARY DATA AS OF 12/31/89

PUERTO RICO

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	2	1,404	301	92,000
1,001-5,000	5	10,368	116	265,000
5,001-10,000	3	24,791	26	179,000
10,001-50,000	22	533,441	48	1,083,000
50,001-100,000	3	202,572	4	302,000
>100,000	4	1,748,736	5	2,113,000
TOTAL	39	2,521,312	500	4,032,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	39	2,521,312	100.0
CONSECUTIVE	0	0	0.0
NATURAL	0	0	0.0
TOTAL	39	2,521,312	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	0	0	0
INDIAN SYSTEMS	0	0	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	0	0	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	39	2,521,312
SODIUM SILICOFUORIDE	0	0
HYDROFLUOSILICIC ACID	0	0

No.		Date		Description		Amount	
1		1890	Jan 1	Balance		100.00	
2		1890	Feb 1	Interest		5.00	
3		1890	Mar 1	Interest		5.00	
4		1890	Apr 1	Interest		5.00	
5		1890	May 1	Interest		5.00	
6		1890	Jun 1	Interest		5.00	
7		1890	Jul 1	Interest		5.00	
8		1890	Aug 1	Interest		5.00	
9		1890	Sep 1	Interest		5.00	
10		1890	Oct 1	Interest		5.00	
11		1890	Nov 1	Interest		5.00	
12		1890	Dec 1	Interest		5.00	
13		1890	Jan 1	Interest		5.00	
14		1890	Feb 1	Interest		5.00	
15		1890	Mar 1	Interest		5.00	
16		1890	Apr 1	Interest		5.00	
17		1890	May 1	Interest		5.00	
18		1890	Jun 1	Interest		5.00	
19		1890	Jul 1	Interest		5.00	
20		1890	Aug 1	Interest		5.00	
21		1890	Sep 1	Interest		5.00	
22		1890	Oct 1	Interest		5.00	
23		1890	Nov 1	Interest		5.00	
24		1890	Dec 1	Interest		5.00	
25		1890	Jan 1	Interest		5.00	
26		1890	Feb 1	Interest		5.00	
27		1890	Mar 1	Interest		5.00	
28		1890	Apr 1	Interest		5.00	
29		1890	May 1	Interest		5.00	
30		1890	Jun 1	Interest		5.00	
31		1890	Jul 1	Interest		5.00	
32		1890	Aug 1	Interest		5.00	
33		1890	Sep 1	Interest		5.00	
34		1890	Oct 1	Interest		5.00	
35		1890	Nov 1	Interest		5.00	
36		1890	Dec 1	Interest		5.00	
37		1890	Jan 1	Interest		5.00	
38		1890	Feb 1	Interest		5.00	
39		1890	Mar 1	Interest		5.00	
40		1890	Apr 1	Interest		5.00	
41		1890	May 1	Interest		5.00	
42		1890	Jun 1	Interest		5.00	
43		1890	Jul 1	Interest		5.00	
44		1890	Aug 1	Interest		5.00	
45		1890	Sep 1	Interest		5.00	
46		1890	Oct 1	Interest		5.00	
47		1890	Nov 1	Interest		5.00	
48		1890	Dec 1	Interest		5.00	
49		1890	Jan 1	Interest		5.00	
50		1890	Feb 1	Interest		5.00	
51		1890	Mar 1	Interest		5.00	
52		1890	Apr 1	Interest		5.00	
53		1890	May 1	Interest		5.00	
54		1890	Jun 1	Interest		5.00	
55		1890	Jul 1	Interest		5.00	
56		1890	Aug 1	Interest		5.00	
57		1890	Sep 1	Interest		5.00	
58		1890	Oct 1	Interest		5.00	
59		1890	Nov 1	Interest		5.00	
60		1890	Dec 1	Interest		5.00	
61		1890	Jan 1	Interest		5.00	
62		1890	Feb 1	Interest		5.00	
63		1890	Mar 1	Interest		5.00	
64		1890	Apr 1	Interest		5.00	
65		1890	May 1	Interest		5.00	
66		1890	Jun 1	Interest		5.00	
67		1890	Jul 1	Interest		5.00	
68		1890	Aug 1	Interest		5.00	
69		1890	Sep 1	Interest		5.00	
70		1890	Oct 1	Interest		5.00	
71		1890	Nov 1	Interest		5.00	
72		1890	Dec 1	Interest		5.00	
73		1890	Jan 1	Interest		5.00	
74		1890	Feb 1	Interest		5.00	
75		1890	Mar 1	Interest		5.00	
76		1890	Apr 1	Interest		5.00	
77		1890	May 1	Interest		5.00	
78		1890	Jun 1	Interest		5.00	
79		1890	Jul 1	Interest		5.00	
80		1890	Aug 1	Interest		5.00	
81		1890	Sep 1	Interest		5.00	
82		1890	Oct 1	Interest		5.00	
83		1890	Nov 1	Interest		5.00	
84		1890	Dec 1	Interest		5.00	
85		1890	Jan 1	Interest		5.00	
86		1890	Feb 1	Interest		5.00	
87		1890	Mar 1	Interest		5.00	
88		1890	Apr 1	Interest		5.00	
89		1890	May 1	Interest		5.00	
90		1890	Jun 1	Interest		5.00	
91		1890	Jul 1	Interest		5.00	
92		1890	Aug 1	Interest		5.00	
93		1890	Sep 1	Interest		5.00	
94		1890	Oct 1	Interest		5.00	
95		1890	Nov 1	Interest		5.00	
96		1890	Dec 1	Interest		5.00	
97		1890	Jan 1	Interest		5.00	
98		1890	Feb 1	Interest		5.00	
99		1890	Mar 1	Interest		5.00	
100		1890	Apr 1	Interest		5.00	

STATE SUMMARY DATA AS OF 12/31/89

RHODE ISLAND

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	1	350	59	10,000
1,001-5,000	2	5,300	9	25,000
5,001-10,000	3	22,900	2	46,000
10,001-50,000	8	200,243	10	259,000
50,001-100,000	0	226,302	3	215,000
>100,000	1	277,891	2	388,000
TOTAL	18	732,986	90	942,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	8	510,357	69.6
CONSECUTIVE	10	222,629	30.4
NATURAL	0	0	0.0
TOTAL	18	732,986	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	0	0	0
INDIAN SYSTEMS	0	0	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	0	0	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	0	0
SODIUM SILICOFLUORIDE	15	639,487
HYDROFLUOSILICIC ACID	1	88,199

THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

REPORT ON THE PROGRESS OF THE WORK
DURING THE YEAR 1900-1901
BY
J. H. P. J. VAN DER BEEK

CHICAGO, ILL., 1901

THE UNIVERSITY OF CHICAGO PRESS

PRINTED BY THE UNIVERSITY OF CHICAGO PRESS

STATE SUMMARY DATA AS OF 12/31/89

SOUTH CAROLINA

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	128	45,526	677	127,000
1,001-5,000	85	233,769	143	359,000
5,001-10,000	39	261,222	49	345,000
10,001-50,000	46	1,007,371	47	960,000
50,001-100,000	3	212,912	5	324,000
>100,000	3	664,525	3	664,000
TOTAL	304	2,423,325	924	2,779,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	75	1,703,627	70.3
CONSECUTIVE	102	416,444	17.2
NATURAL	127	303,254	12.5
TOTAL	304	2,423,325	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	1	450	34	11,318
INDIAN SYSTEMS	0	0	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	6	44,593	1	3,176

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	25	206,839
SODIUM SILICOFLUORIDE	85	918,879
HYDROFLUOSILICIC ACID	59	986,652

THE HISTORY OF THE CITY OF BOSTON

FROM 1630 TO 1800

The history of the city of Boston, from its first settlement in 1630 to the year 1800, is a subject of great interest and importance. It is a city which has been the seat of many of the most important events in the history of the United States, and which has played a prominent part in the development of the nation. The city has been the birthplace of many of the great men of the country, and has been the scene of many of the most important events in the history of the world. The history of the city is a subject which has attracted the attention of many writers, and has been the subject of many books and articles. The history of the city is a subject which is of great interest to all who are interested in the history of the United States, and who wish to know more about the city which has been the seat of so many of the most important events in the history of the nation.

STATE SUMMARY DATA AS OF 12/31/89

SOUTH DAKOTA

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	234	82,245	338	94,000
1,001-5,000	78	171,312	77	167,000
5,001-10,000	9	50,035	8	48,000
10,001-50,000	9	161,353	9	164,000
50,001-100,000	1	81,232	1	81,000
>100,000	0	0	0	0
TOTAL	330	546,177	433	555,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	152	449,900	82.4
CONSECUTIVE	111	58,179	10.7
NATURAL	67	38,098	7.0
TOTAL	330	546,177	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	1	0	0
INDIAN SYSTEMS	65	23,949	1	84
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	1	5,000	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	68	106,436
SODIUM SILICOFLUORIDE	23	168,551
HYDROFLUOSILICIC ACID	141	210,250

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[illegible]

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STATE SUMMARY DATA AS OF 12/31/89

TENNESSEE

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	19	13,121	182	70,000
1,001-5,000	113	297,386	224	531,000
5,001-10,000	60	435,565	80	562,000
10,001-50,000	60	1,273,228	66	1,408,000
50,001-100,000	0	266,495	0	265,000
>100,000	0	1,271,481	0	1,257,000
TOTAL	260	3,557,276	560	4,094,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	209	3,376,209	94.9
CONSECUTIVE	51	181,067	5.1
NATURAL	0	0	0.0
TOTAL	263	3,557,276	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	0	0	0
INDIAN SYSTEMS	0	0	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	3	61,119	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	57	188,762
SODIUM SILICOFLUORIDE	157	1,852,268
HYDROFLUOSILICIC ACID	46	1,516,246

THE HISTORY OF THE
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STATE SUMMARY DATA AS OF 12/31/89

TEXAS

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	195	125,372	3,162	783,000
1,001-5,000	392	951,251	1,081	2,426,000
5,001-10,000	18	614,301	199	1,146,000
10,001-50,000	195	2,115,366	181	3,506,000
50,001-100,000	18	1,301,471	23	1,588,000
>100,000	18	5,905,407	22	7,373,000
TOTAL	820	11,013,168	4,668	16,991,000

FLUORIDATED SYSTEM CLASSIFICATION

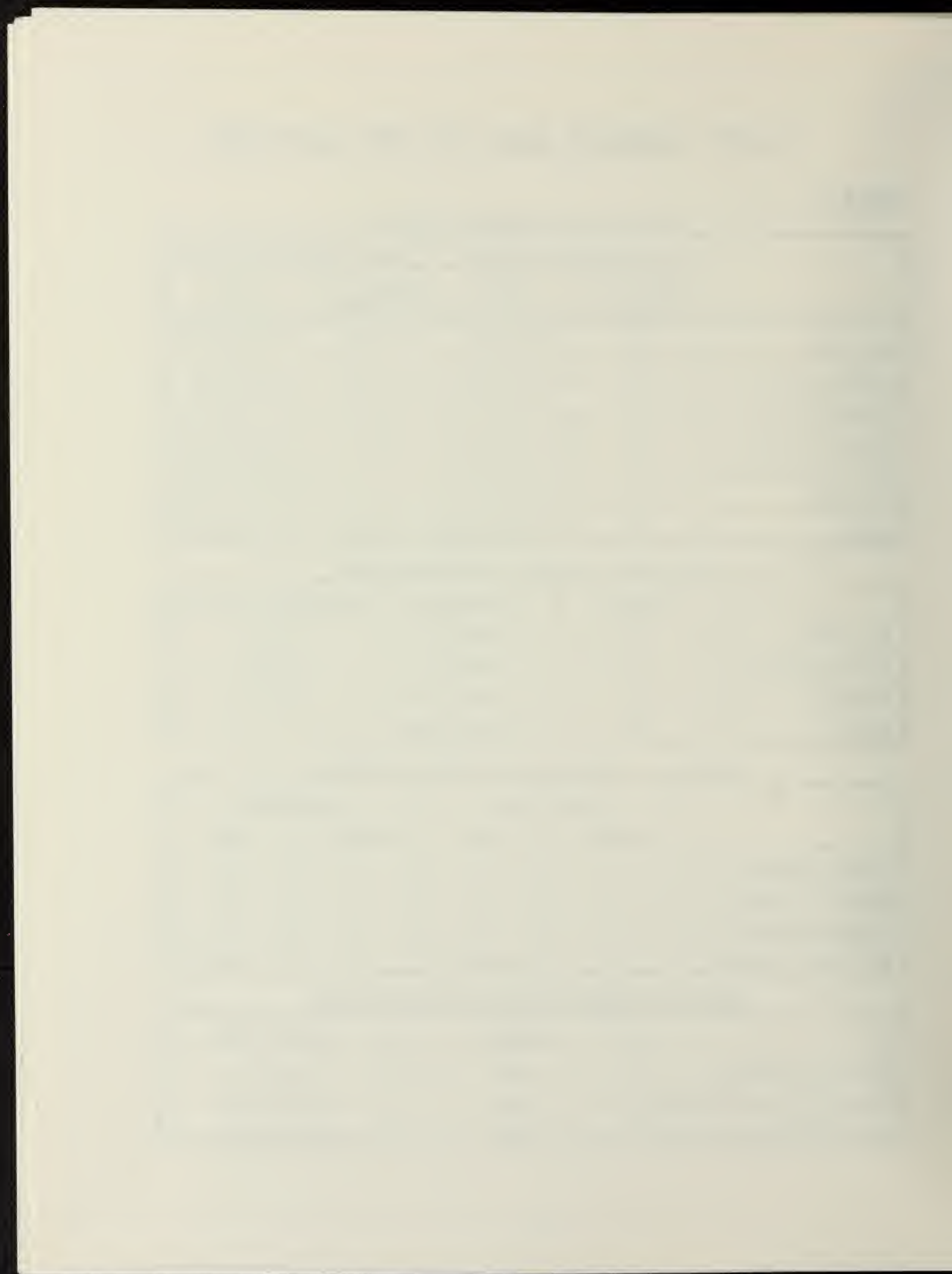
	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	149	5,986,357	54.4
CONSECUTIVE	144	2,166,015	19.7
NATURAL	527	2,860,796	26.0
TOTAL	820	11,013,168	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	0	0	0
INDIAN SYSTEMS	0	0	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	12	116,927	2	5,500

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	38	362,981
SODIUM SILICOFLUORIDE	52	2,297,730
HYDROFLUOSILICIC ACID	201	5,478,061



STATE SUMMARY DATA AS OF 12/31/89

UTAH

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	20	5,413	257	39,000
1,001-5,000	4	10,420	93	121,000
5,001-10,000	0	9,900	22	91,000
10,001-50,000	1	17,000	28	317,000
50,001-100,000	0	0	7	291,000
>100,000	0	0	4	848,000
TOTAL	26	42,733	411	1,707,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	9	35,609	83.3
CONSECUTIVE	2	1,100	2.6
NATURAL	15	6,024	14.1
TOTAL	26	42,733	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	0	0	0
INDIAN SYSTEMS	7	5,109	2	175
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	1	9,900	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	4	10,309
SODIUM SILICOFUORIDE	4	17,000
HYDROFLUOSILICIC ACID	2	4,300

STATE SUMMARY DATA AS OF 12/31/89

VERMONT

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	33	7,280	396	75,000
1,001-5,000	18	49,047	55	134,000
5,001-10,000	4	32,300	9	72,000
10,001-50,000	3	84,000	5	141,000
50,001-100,000	1	60,000	0	0
>100,000	0	0	0	0
TOTAL	59	232,627	465	421,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	51	232,627	100.0
CONSECUTIVE	8	0	0.0
NATURAL	0	0	0.0
TOTAL	59	232,627	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	23	5,630	0	0
INDIAN SYSTEMS	0	0	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	0	0	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	42	68,427
SODIUM SILICOFLUORIDE	1	50,000
HYDROFLUOSILICIC ACID	16	114,200

THE HISTORY OF THE
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JOHN H. COLEMAN
OF THE CITY OF BOSTON

BOSTON:
PUBLISHED BY
J. B. LEECH, 15 N. BOSTON ST.
1855.

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STATE SUMMARY DATA AS OF 12/31/89

VIRGINIA

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	210	54,825	1,327	257,000
1,001-5,000	51	134,820	155	360,000
5,001-10,000	21	148,473	35	247,000
10,001-50,000	33	741,217	51	1,115,000
50,001-100,000	3	246,441	3	232,000
>100,000	12	2,601,897	12	2,737,000
TOTAL	330	3,927,673	1,583	4,950,000

FLUORIDATED SYSTEM CLASSIFICATION

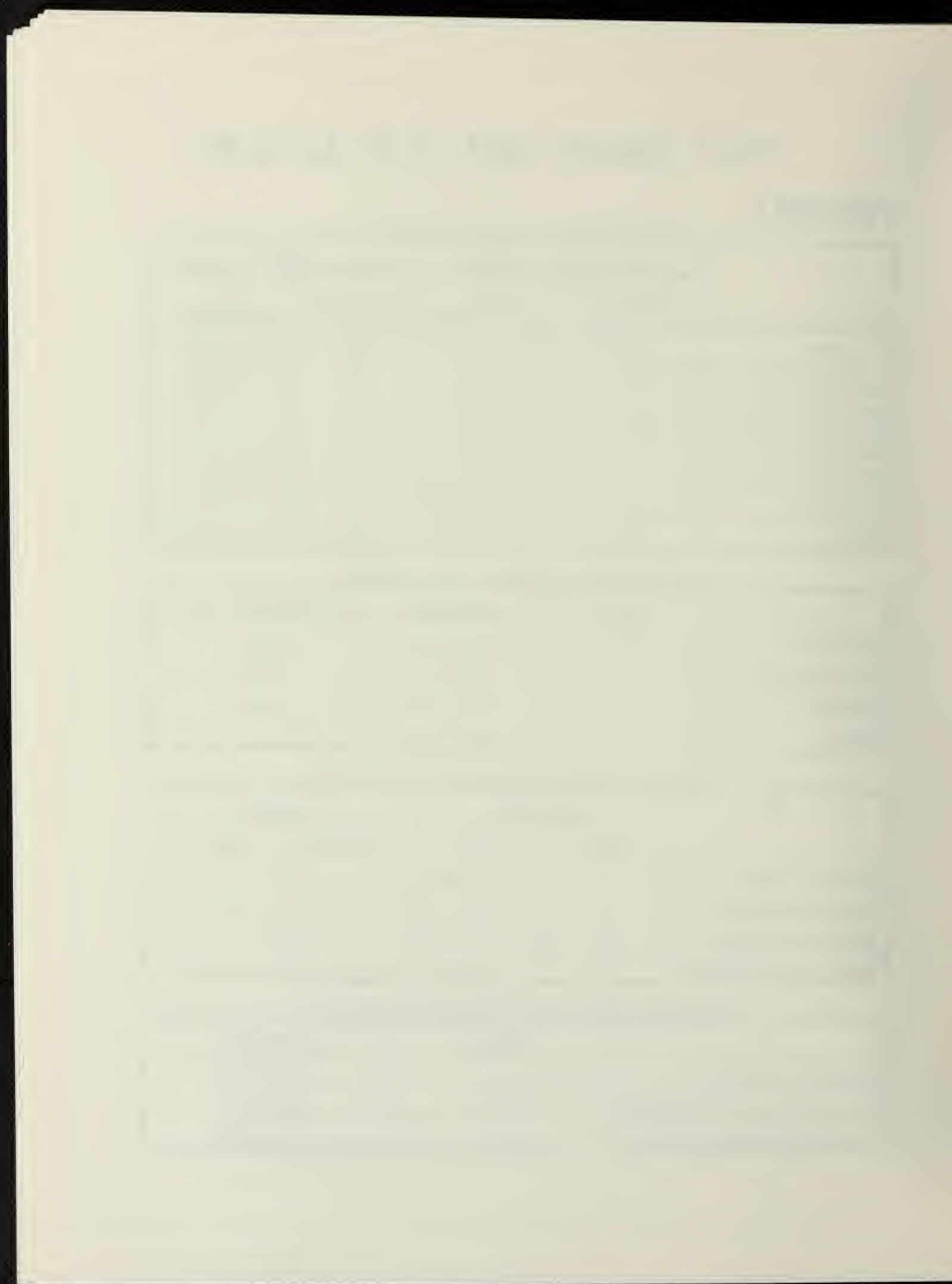
	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	101	3,232,857	82.3
CONSECUTIVE	21	483,035	12.3
NATURAL	208	211,781	5.4
TOTAL	330	3,927,673	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	5	3,020	0	0
INDIAN SYSTEMS	0	0	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	2	11,714	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	37	900,960
SODIUM SILICOFLUORIDE	29	885,770
HYDROFLUOSILICIC ACID	54	1,913,821



STATE SUMMARY DATA AS OF 12/31/89

WASHINGTON

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	43	15,693	2,108	320,000
1,001-5,000	35	84,881	192	433,000
5,001-10,000	11	79,851	37	278,000
10,001-50,000	31	604,794	64	1,306,000
50,001-100,000	0	153,750	0	500,000
>100,000	0	846,000	0	1,026,000
TOTAL	125	1,784,969	2,413	3,861,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	66	1,222,747	68.5
CONSECUTIVE	43	501,923	28.1
NATURAL	16	60,299	3.4
TOTAL	125	1,784,969	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	0	0	0
INDIAN SYSTEMS	26	9,525	1	450
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	3	57,709	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	48	368,976
SODIUM SILICOFLUORIDE	48	263,654
HYDROFLUOSILICIC ACID	41	1,079,755

STATE SUMMARY DATA AS OF 12/31/89

WEST VIRGINIA

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	13	9,717	516	138,000
1,001-5,000	13	231,630	235	542,000
5,001-10,000	25	181,053	32	286,000
10,001-50,000	12	239,255	15	362,000
50,001-100,000	4	228,078	2	123,000
>100,000	2	296,000	2	286,000
TOTAL	139	1,185,733	802	1,679,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	135	1,170,524	98.7
CONSECUTIVE	3	14,550	1.2
NATURAL	1	659	0.1
TOTAL	139	1,187,533	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	2	0	0	0
INDIAN SYSTEMS	0	0	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	0	0	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	97	317,496
SODIUM SILICOFLUORIDE	16	350,232
HYDROFLUOSILICIC ACID	25	517,346



STATE SUMMARY DATA AS OF 12/31/89

WISCONSIN

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	229	71,562	1,045	220,000
1,001-5,000	161	383,738	219	487,000
5,001-10,000	34	258,856	39	295,000
10,001-50,000	42	832,601	41	859,000
50,001-100,000	10	639,731	7	459,000
>100,000	2	793,835	3	1,005,000
TOTAL	478	2,980,323	1,354	3,326,000

FLUORIDATED SYSTEM CLASSIFICATION

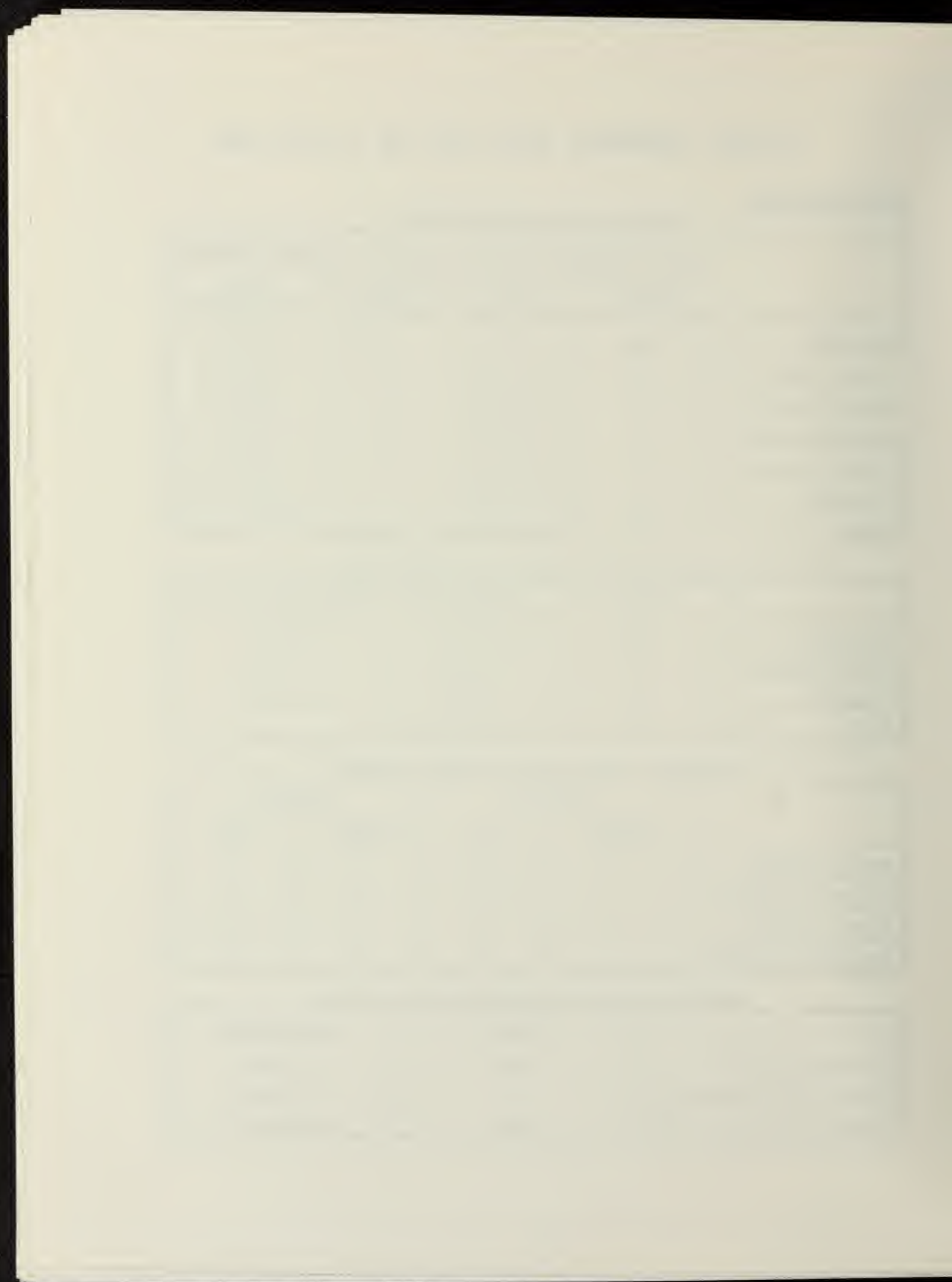
	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	302	2,573,117	86.3
CONSECUTIVE	25	233,162	7.8
NATURAL	151	174,044	5.8
TOTAL	478	2,980,323	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	43	7,261	0	0
INDIAN SYSTEMS	11	8,137	0	0
INDIAN SCHOOLS	0	0	2	6,719
MILITARY SYSTEMS	0	0	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	53	36,496
SODIUM SILICOFLUORIDE	26	570,744
HYDROFLUOSILICIC ACID	245	2,195,156



STATE SUMMARY DATA AS OF 12/31/89

WYOMING

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	11	3,796	262	51,000
1,001-5,000	4	11,286	29	65,000
5,001-10,000	0	5,310	11	80,000
10,001-50,000	3	48,091	6	143,000
50,001-100,000	1	58,429	1	51,000
>100,000	0	0	1	0
TOTAL	20	126,912	309	390,000

FLUORIDATED SYSTEM CLASSIFICATION

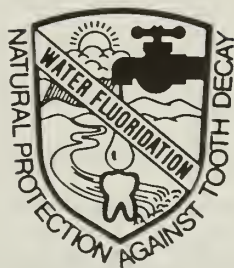
	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	7	105,065	82.8
CONSECUTIVE	1	359	0.3
NATURAL	12	21,488	16.9
TOTAL	20	126,912	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	1	1	0
INDIAN SYSTEMS	1	1,668	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	0	0	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	1	1,668
SODIUM SILICOFLUORIDE	6	92,209
HYDROFLUOSILICIC ACID	1	11,547



FLUORIDATION
STATISTICS
TERRITORY SUMMARIES

STATE SUMMARY DATA AS OF 12/31/89

AMERICAN SAMOA

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	0	0	50	15,000
1,001-5,000	0	0	4	8,000
5,001-10,000	0	0	0	0
10,001-50,000	0	0	1	18,000
50,001-100,000	0	0	0	0
>100,000	0	0	0	0
TOTAL	0	0	55	40,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	0	0	0
CONSECUTIVE	0	0	0
NATURAL	0	0	0
TOTAL	0	0	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	0	0	0
INDIAN SYSTEMS	0	0	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	0	0	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	0	0
SODIUM SILICOFLUORIDE	0	0
HYDROFLUOSILICIC ACID	0	0

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STATE SUMMARY DATA AS OF 12/31/89

NORTHERN MARIANAS

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	0	0	2	2,000
1,001-5,000	0	0	0	3,000
5,001-10,000	0	0	0	0
10,001-50,000	0	0	0	0
50,001-100,000	0	0	0	0
>100,000	0	0	0	0
TOTAL	0	0	4	4,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	0	0	0
CONSECUTIVE	0	0	0
NATURAL	0	0	0
TOTAL	0	0	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	0	0	0
INDIAN SYSTEMS	0	0	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	0	0	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	0	0
SODIUM SILICOFLUORIDE	0	0
HYDROFLUOSILICIC ACID	0	0

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THEORY OF PROBABILITY

BY ANDREW WILSON

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STATE SUMMARY DATA AS OF 12/31/89

GUAM

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	2	1,000	2	1,000
1,001-5,000	0	7,000	3	7,000
5,001-10,000	2	14,000	2	14,000
10,001-50,000	2	25,000	2	25,000
50,001-100,000	1	62,000	1	62,000
>100,000	0	0	2	0
TOTAL	10	109,000	10	109,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	10	109,000	100.0
CONSECUTIVE	0	0	0.0
NATURAL	0	0	0.0
TOTAL	10	109,000	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	0	0	0
INDIAN SYSTEMS	0	0	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	2	41,000	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	8	68,000
SODIUM SILICOFLUORIDE	0	25,000
HYDROFLUOSILICIC ACID	1	15,000

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STATE SUMMARY DATA AS OF 12/31/89

REPUBLIC OF PALAU

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	0	0	31	7,000
1,001-5,000	0	0	0	0
5,001-10,000	0	0	0	0
10,001-50,000	0	0	0	0
50,001-100,000	0	0	0	0
>100,000	0	0	0	0
TOTAL	0	0	31	6,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	0	0	0
CONSECUTIVE	0	0	0
NATURAL	0	0	0
TOTAL	0	0	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	0	0	0
INDIAN SYSTEMS	0	0	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	0	0	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	0	0
SODIUM SILICOFLUORIDE	0	0
HYDROFLUOSILICIC ACID	0	0

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STATE SUMMARY DATA AS OF 12/31/89

TRUST TERRITORIES

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	0	0	165	36,000
1,001-5,000	0	0	8	19,000
5,001-10,000	0	0	4	35,000
10,001-50,000	0	0	0	0
50,001-100,000	0	0	0	0
>100,000	0	0	0	0
TOTAL	0	0	177	89,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	0	0	0
CONSECUTIVE	0	0	0
NATURAL	0	0	0
TOTAL	0	0	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	0	0	0
INDIAN SYSTEMS	0	0	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	0	0	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	0	0
SODIUM SILICOFLUORIDE	0	0
HYDROFLUOSILICIC ACID	0	0

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STATE SUMMARY DATA AS OF 12/31/89

VIRGIN ISLANDS

SYSTEM SIZE CLASSIFICATION

	FLUORIDATED SYSTEMS		PUBLIC WATER SYSTEMS	
	NUMBER OF SYSTEMS	TOTAL POPULATION	NUMBER OF SYSTEMS	TOTAL POPULATION
=<1,000	0	0	140	20,000
1,001-5,000	0	0	1	1,000
5,001-10,000	0	0	2	19,000
10,001-50,000	0	0	0	0
50,001-100,000	0	0	0	0
>100,000	0	0	0	0
TOTAL	0	0	143	41,000

FLUORIDATED SYSTEM CLASSIFICATION

	NUMBER	POPULATION	PERCENTAGE (POP.)
ADJUSTED	0	0	0
CONSECUTIVE	0	0	0
NATURAL	0	0	0
TOTAL	0	0	

SCHOOLS, INDIAN AND MILITARY SYSTEMS

	ADJUSTED		NATURAL	
	NUMBER	POP.	NUMBER	POP.
TOTAL SCHOOLS	0	0	0	0
INDIAN SYSTEMS	0	0	0	0
INDIAN SCHOOLS	0	0	0	0
MILITARY SYSTEMS	0	0	0	0

CHEMICAL USAGE OF FLUORIDATING SYSTEMS

	NUMBER	POPULATION
SODIUM FLUORIDE	0	0
SODIUM SILICOFLUORIDE	0	0
HYDROFLUOSILICIC ACID	0	0

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